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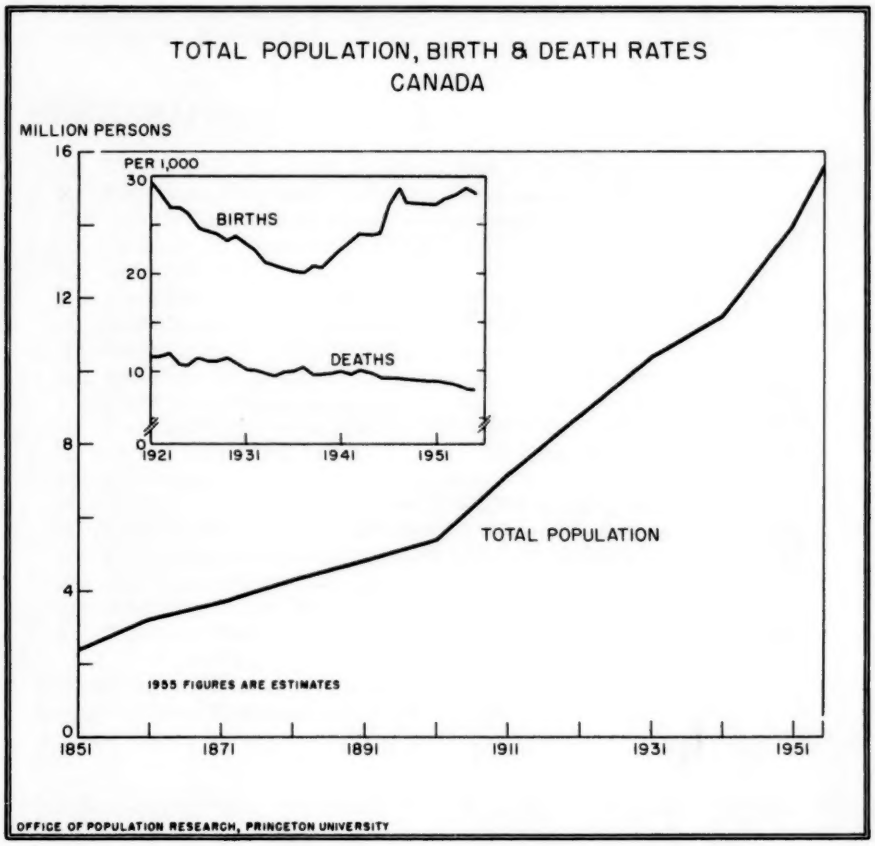

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POPULATION INDEX

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April, 1956

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CURRENT ITEMS

CANADIAN POPULATION STATISTICS

It is just a decade short of three hundred years since Canada's first census was taken in 1666. The current year also represents the thirtieth anniversary of a national system of vital statistics. Even more noteworthy from the viewpoint of Canadian demography is the fact that in 1956 the first nation-wide census in a mid-decennial period will be introduced. Canada has taken decennial censuses since 1871, a few years after Confederation. During the early stages of development in the West, a quinquennial census of the prairie provinces was initiated. The breadth and magnitude of current developments across the entire nation has inspired the new survey.

The Censuses

The 1956 Census. The 1956 Census will report a population probably some two million over the 1951 Census figure of 14 million and will reveal extensive shifts of population between provinces. Probably growth rates of outlying metropolitan areas will be found to be in excess of three times the rates of the cities proper. The new survey will include both a census of population and a census of agriculture. The rapidly changing conditions in agriculture and the difficulties of providing accurate estimates over a 10-year span have clearly revealed the need for an agricultural bench mark to bridge the long interval.

The practicability of taking a 1956 census has been aided by the many new techniques and improvements introduced in Canada's 1951 Census. The 1956 Census will be characterized by questionnaires that are restricted to basic inquiries and by the full use of the mark-sensing technique of field enumeration, not only for population but for agriculture as well. The Population Document will contain five enumerative inquiries in addition to the name and address of each person, viz., on sex, age, marital status, relationship to head of household, and farm or non-farm residence. The agriculture inquiries for each farm are contained on two mark-sensed documents and include approximately 75 basic inquiries, mainly on crops, acreages, livestock, and farm machinery. A new feature of the 1956 Census will be the method of obtaining by mechanical means, without prior coding, such data as household and family composition and ages of children, from a mark-sense enumeration of the question on "relationship to head of household." Mechanical means can then be employed to produce a summary punched card containing the details of each household and family for the tabulation processing to follow. An unusual feature of the mechanical process is that while the results will be prepared on a de jure basis, experimental data on a de facto basis will be derived for the study of temporary residents. In the published results duplication will be avoided through preprints, which will be later bound to comprise the final report. The first results are expected in the latter part of 1956, with the work completed in the following year.

It is felt that a major advance has been made in census taking through a new quality check. In practice enumeration censuses are likely to fall somewhat below the theoretical goal of complete enumeration. But the size of these discrepancies, unlike sampling errors, cannot or-

dinarily be determined by an analysis of the census data; the order of size is best determined by comparison with independent estimates. Such a comparison will be made with the Canadian Labour Force Survey of May 1956, which is a continuing survey based on an area sample of the Canadian population. Documents of the two surveys will be matched and compared. The tabulated comparisons will indicate the degree of divergence in answers to the same question by a matched group of respondents and will also provide an indication of the completeness of the enumeration. As a result, certain areas will be re-enumerated to determine the reason for the difference and to find whether questions have been misunderstood or whether enumerators have been at fault. This may spotlight fields requiring more detailed investigation. The procedure was applied in a number of selected urban areas in 1951, and the technique will be further extended in 1956. It is expected that the 1956 comparison will indicate the completeness of enumeration for Canada as a whole.

History of Census Taking. The historical development of census records is closely associated with the turning points of the nation's destiny. The earliest figures have been reconstructed from the ecclesiastical records, the vital statistics of the French Roman Catholic population of what is now the Province of Quebec, back to the year 1608, when Quebec was founded by Champlain. In the earliest days of the colony deaths exceeded births, but by 1638, after the age and sex distribution of the small population became more normal, the births in each year exceeded the deaths, and the population grew rapidly through natural increase as well as immigration.

The census of 1666, the first systematic census of modern times, was ordered by Louis XIV to learn the progress of the colony after half a century of existence. This census was taken on the de jure principle, and a record was secured of all persons by name, with their ages, occupations, conjugal conditions, and the relationship of each person to the head of the family. A supplementary inquiry dealt with areas under cultivation and numbers of cattle and sheep. This initial census of 1666 was repeated for New France thirty-six times during the French regime.

It must be admitted that whatever else may have resulted from the cession of Canada to the British in 1763 there was no improvement in statistics. The Colonial Office was content with much less elaborate reports. There was a census of Lower Canada in 1765 and again in 1784 and 1790, but not until well into the 19th century did census taking assume a more regular form and greater comparability as between the colonies. By the 1840's most of the provinces had accepted the idea of a regular decennial census.

Uses of Census Data. The legal purpose of the census under the British North America Act of 1867 is to determine representation in the Federal House of Commons. But the Canadian census of today has numerous other uses. It constitutes, in part, nothing less than a periodical stocktaking of the people — their number, geographical distribution, ages, marital status, places of birth, nationalities, origins, languages, schooling, occupations, earnings, family composition, housing conditions, etc. Census data on the number of the population are useful in determining provincial subsidy payments, school grants, and other forms of public expenditure where amounts paid are on a per capita basis. Simple counts of the population are also essential in calculating birth, death,

and marriage rates, production and consumption rates, and many other per capita measures. Census population counts also serve as bench marks in the making of intercensal estimates of population. At each level of government, population figures from the census are regarded as official counts of numbers of persons living in provinces, cities, towns, villages, etc.

Statistics on such characteristics of the population as age, marital status, language, and occupation likewise serve a variety of uses. Age figures, for example, are required in estimating the costs of social security measures, such as family allowances and old age pensions, in estimating schooling needs, in producing life tables, and for a variety of purposes in the study of social and economic problems. Marital status statistics from the census are used to compare the incidence of various diseases among single and married persons, to estimate the proportion of married women in the labor force, to determine the changes taking place in the number of widowed and divorced persons in Canada. Statistics on language and mother tongue are useful to educational authorities, advertising agencies, and the foreign language press. Occupation statistics are of value to immigration officials and vocational counselors in technical school and employment offices. These statistics are of interest to firms wishing to know what occupational skills may be found in localities where they may be planning to establish branch plants. Similarly, statistics from the censuses of agriculture and housing are of value in the solution of economic and social problems, as well as for more immediate administrative purposes.

Canada has been working for over half a century, since the St. Petersburg meeting of the International Statistical Institution in 1887, to establish international comparability of statistics. As a member of the Statistical and Population Commissions of the United Nations, of the Food and Agriculture Organization, and of the Inter American Statistical Institute, Canada has taken an active part in the formulation of internationally comparable concepts and definitions and in the setting up of a minimum and maximum program for the taking of a census. Recommendations of the various interested international organizations were studied carefully and followed as closely as possible in the planning and compilation of the 1951 Census.

The 1951 Census. The 1951 Census was clearly the most significant in the country's history. Coming at the mid-point of the century, it provided a means of measuring Canada's development during the first half of this century. It reflected the widespread economic and social changes resulting from the Second World War, the change-over to a peacetime economy, and the tremendous industrial developments which have occurred during this period. Following the Union of Newfoundland and Canada in 1949, the 1951 Census represents Canada's first census as a nation of ten provinces.

A word about the magnitude and direction of changes revealed by the 1951 Census is perhaps necessary as a preface to a description of its organization and techniques. The ten years between 1941 and 1951 witnessed the largest growth in Canada's history, with population increasing from eleven and a half million to over fourteen million. There were sharp differences in provincial trends, however. The population of British Columbia increased by 42 per cent during the ten-year period, while in Saskatchewan there was a decline of 7 per cent. The rates of

growth in Ontario and Quebec were nearly identical at slightly over 21 per cent.

There has been a complete transformation in the rural-urban distribution of the population. In 1891, 68 per cent of the population lived in rural areas, while in 1951, 62 per cent of the population lived in urban areas. Between 1941 and 1951 alone the gain in population in urban areas was 30 per cent, while that in rural areas was only 3 per cent. Of particular significance was the trend of population in the major cities. The proportion of the urban population living in cities of 100,000 or over has risen from 26 per cent in 1891 to 42 per cent in 1951. The population in the metropolitan areas of cities of 100,000 or over in 1951 was 4.7 million. This was 54 per cent of the total urban population or about one third of the total population of Canada. The combined population of the suburban parts of these cities increased about 87 per cent between 1941 and 1951, as compared with a 12 per cent increase within the cities proper.

The 1951 Census revealed interesting changes in the age and sex distribution of the population. Since 1881, when age statistics became available, the age composition of the Canadian people has been undergoing a marked alteration. Up to the 1941 Census children constituted an almost steadily declining proportion of the total population with the age group under 10 making up 18 per cent of the population in 1941 compared with 27 per cent in 1881. This long-term trend was reversed in 1951, when children under 10 years comprised 22 per cent of the total population. The proportion of older people in Canada's population has shown a marked increase. In only 20 years more than six years have been added to the life expectancy of the average Canadian male and more than eight years to the life expectancy of the average Canadian female. Changes in the sex distribution of the Canadian population have been accounted for by such factors as changing immigration, which is no longer as predominantly male as it was before 1930, emigration, which has involved more men than women, and greater longevity, which has improved faster for females. In 1911 there were 1,129 males to every 1,000 females, but in 1951 only 1,024.

On the technical side, the 1951 Census marked the introduction of many new techniques of census taking, such as the principle of decentralization of certain operations, the use of mark-sense equipment in conjunction with high-speed electronic tabulating machines, and the employment of printing processes designed to speed the release of published reports and volumes. These techniques were only the latest steps in a continuing historical process. Tabulating and other auxiliary equipment was first used in the 1911 Census. In 1921 census-machine installation was expanded considerably, with increased use made of sorters, tabulators, adding and comptometer machines. For the 1931 Census, the Bureau staff designed and produced three special census machines: the gang punch, automatic verifier, and sorter-tabulator. The automatic verifier served to point up future possibilities of mechanical editing. Special machines operated by compressed air were developed for the 1941 Census. These machines gave new flexibility. By the use of relay tubes, one or more characteristics could be cross-classified with other information.

In 1951 census operations were streamlined to an extent not possible with earlier machine installations. Hand key-punching was avoided by using ink that carried an electric current and could be "read"

by a Document punch. Entries were automatically checked for consistency through the setting of the machine to reject unacceptable combinations of characteristics. For example, a card for a doctor had to show a minimum number of years of schooling. Because of the new procedures, the results were available in half the time otherwise possible, and with a saving of two million dollars.

An interesting factor in the success of the 1951 Census was the testing of the new methods in experimental trials in 1949 which confirmed that mark-sensing in the field was worthwhile but showed that a number of changes in procedure would improve it. During the census, control at the enumeration stage was facilitated by a system of progress reporting using postal cards. New methods of training enumerators (especially the use of the two-part manual, with one part to be memorized and the other to be referred to) and clearer definitions of enumeration areas by the use of maps were important in raising the quality of results.

The 1951 Census was taken in June, and the first release of census information, appearing on August 17, 1951, contained provisional totals of the population for cities, towns, and incorporated villages. Starting early in 1952 half a dozen basic classifications of the general population characteristics most in demand were released in the form of typewritten offset reports. During the first six months of 1953 census tract statistics were released for fourteen of Canada's largest cities. These tracts represent statistical units designed to provide comparisons of social and economic factors within an urban community that are often obscured in city totals. Final preliminary releases were reproductions of the exact tables planned for the census volumes and were ready to be bound in their existing form.

The first census volume to appear in print from the 1951 Census was released in July 1953, and there remains only one summary volume scheduled for release before the middle of 1956. The published volumes, with notes on their contents, are as follows:

I - Population: General characteristics such as sex, age, marital status, origin, religious denomination, birthplace, citizenship, period of immigration, mother tongue, years of schooling and war service.

II - Population: Cross-classifications by (a) age groups and sex and (b) origin and sex.

III - Housing and Families: Household information and family characteristics.

IV - Labour Force: Occupations and industries.

V - Labour Force: Earnings and employment. Wage and salary earnings by weeks of employment.

VI - Agriculture (Parts I and II): Information on occupied farms and data on individual crops, livestock, and farm machinery.

VII - Distribution: Retail trade.

VIII - Distribution: Wholesale trade and services.

IX - Fisheries: The first census survey of this industry.

X - General Review: The first part consists of textual matter, interspersed with a number of summary tables and charts; the second comprises historical and analytical tabular material. The aim is to provide a general interpretation of the census results.

XI - Administrative Report: This provides a permanent record of census procedures in the various stages of planning, enumeration, tabulation, and publication of the 1951 Census. First, it enables a more comprehensive assessment to be made of the statistics presented

in the various census volumes by providing necessary background information. Second, it adds a further chapter to the historical account of census taking in Canada, which it is hoped will prove of value to statisticians and demographers in other countries, as well as to Canadian Census officials engaged in the planning of future censuses.

Vital Statistics

History of Registration. It is only since 1920 that the Census has been supplemented by a nation-wide registration system of vital statistics. Registration of baptisms, marriages, and burials by ecclesiastical authorities dates from the very first days of French colonization around 1610 and was later extended to the English colony. In English-speaking Canada this system was succeeded 250 to 300 years later by provincial acts for registration of births, marriages, and deaths by the civil authorities. The Canadian Constitution (the British North America Act of 1867), in addition to defining the constitutional status of the provinces in the Canadian Confederation, provided that legislation relating to property and civil rights falls within the jurisdiction of the provinces, while "Census and Statistics" were delimited as federal responsibilities.

Accordingly, the several provinces at varying times between 1860 and 1906 enacted legislation for the compulsory civil registration of vital events. The civil recording of vital events during this period, and for some years later, was seriously deficient and impracticable for national compilation purposes, mainly because of variations in legislation, incompleteness of registration, lack of uniformity in classification and presentation, omission of important data, choice of fiscal instead of calendar year, and in some cases suspension of registration for several years.

Two methods were used under the first federal Census and Statistics Act in an attempt to compile some basic national vital statistics during this early period. That Act provided for a recording of deaths in the census year and for "the annual collection and publication of vital statistics in such ways and manner as are found most practicable," preferably in collaboration with local authorities. Accordingly, in most of the earlier Dominion Censuses up to 1911 the number of births and the number and causes of death having occurred in the preceding year were recorded, but the obviously unreliable results led to the abandonment of this plan at the 1911 Census. In 1882 mortuary statistics of cities of over 25,000 population were collected through the cooperation and subsidizing of the local boards of health, but, superseded by the gradual organization of provincial records, this plan was abandoned in the 1890's. Since the Census was not a full-time continuous operation, no permanent national focal point was available for the collection and compilation of national statistics or for the encouragement of local registration and statistics until the creation of the Dominion Bureau of Statistics in 1918.

After the creation of the Dominion Bureau of Statistics in that year and as a result of several Dominion-Provincial conferences agreement was reached on the following principles essential to a national system: (1) registration was the responsibility of each province;(2) provincial legislation was to be based on a model law; (3) the Dominion

would supply to each province uniform registration forms, which were, however, adapted to local needs and requirements; (4) the provinces would supply copies of all registrations to the Dominion Bureau of Statistics at specified intervals; (5) the Dominion Bureau of Statistics was to serve as a statistical clearing house for national vital statistics and the preparation of uniform tabulations required by the provinces; (6) to be included in the registration area, each province must demonstrate at least 90 per cent complete registration.

Since 1921 each province except Quebec and Newfoundland has had compulsory legislation for the registration of births, stillbirths, marriages, and deaths, based on the principles of the model law but adapted in administrative detail to meet local needs. Quebec entered the registration area in 1926 and Newfoundland in 1949 upon entry into Confederation.

Administration of Registration. In most provinces the collection of vital statistics is administered by the Health and/or Welfare Department, and the legislative head is designated as Registrar General. Registration is completed by a system of local registrars, although the methods of appointment, remuneration, and administrative responsibility vary from province to province according to local constitutional requirements. Despite the minor variations in record-keeping practices and office procedures (for example, one province has a confidential death registration), registration principles, records, and practices are basically uniform.

At regular intervals the original provincial vital records are microfilmed and forwarded to the Dominion Bureau of Statistics for statistical processing and for the preparation of national statistics and the uniform annual tabulations that are provided to the provinces. At present particulars as to the place of occurrence of the vital event, the area of residence, and in the case of death records the underlying cause of death are precoded prior to microfilming. All other particulars are coded by the national office. In addition, mechanically listed indexes are prepared for the use of the federal Family Allowances Administration, as checks against applications for benefits on behalf of all children under age 16, and for the use of provincial registration offices in certificate searches.

Liaison between the Bureau and the provincial offices is maintained by a Vital Statistics Council, established in 1945 by a federal Order-in-Council, which meets at least once a year. The Council is made up of one representative from each province (the officer directly in charge of provincial registration), the Dominion Statistician as chairman, and the Directors of the Health and Welfare and Census Divisions of the Bureau. The Council is both a clearinghouse and a planning board, its functions being to discuss problems of law and procedure, to determine and advise their respective governments on such changes as appear useful or necessary, to improve statistical quality, and to make recommendations as to the future use of the National Index.

Canadian vital-statistics practice follows the principles laid down in the model law of 1949. Briefly, in the case of births in all provinces except Quebec and Newfoundland (where registration is effected at the time of baptism) the responsibility of registration is upon the mother, primarily, or upon the father; failing them, the guardian, the occupier of

the house where the birth occurred, or, lastly, the attendant at birth is required to act as informant. In the case of illegitimate births, in accordance with conventional practice, particulars about the natural father can be entered on the record only with the written consent of both parents. In all cases the English common law of presumption of parentage of married persons is applied.

The actual machinery of birth registration is straightforward. In some provinces the attendant at birth is required within 24 hours, or at most 48 hours, to notify the local registrar of his attendance at the birth. The local registrar is then responsible for obtaining the registration from the parent directly or through arrangement with the institution in the case of hospitalized births. Registration must be effected within 30 days, and in one province within 10 days. Registrations effected after one year from the date of birth (in one province after 90 days) must be filed directly with the Registrar General and be supported by documentary proof of place and date of birth and of parentage according to universally accepted standards of evidence. The requirements as to the types of acceptable evidence are rigidly enforced in all provinces.

In the case of deaths, in accordance with universal practice, registration is the responsibility of the person charged with the disposal of the body. He is required to complete the personal particulars and to arrange for certification of the medical particulars, including the cause of death, by the attending physician or coroner. The death registration is then exchanged for a burial or transportation permit issued by the local registrar. Under no circumstances must a body be removed, buried, cremated, or otherwise disposed of, or a religious service be held on its behalf without a burial permit having been issued in exchange for the registration of death.

Persons authorized to solemnize marriage are required to register the event with the local registrar immediately upon completion of the ceremony.

In the provinces of Quebec and Newfoundland registration of birth is effected at the time of baptism by the clergy, who, in addition to completing the ecclesiastical record, act as local registrars and make their returns, as in all other provinces, to the central provincial vital statistics office. Births of any children not baptized shortly after birth may be registered by the parents at civil registry offices in the same manner as in other provinces. Registrations of burials and marriages are similarly effected by the officiating clergy acting as civil local registrars. Otherwise, registration principles, practices, and procedures are the same as those in effect in the other eight provinces.

Tests of registration completeness have indicated complete coverage in some provinces and virtually complete coverage in all others during the past two decades. Inclusion in the registration area calls for at least 90 per cent complete coverage, and more and more births are occurring in hospitals, many under prepaid hospital schemes. No province has had less than 95 per cent coverage since the initiation of the national system in 1920. Further, the close liaison of the federal Family Allowances Administration with provincial offices has resulted in almost 100 per cent registration in all areas.

Notable Features of Registration Practice. Some important uniform features of Canadian registration practice may be worthy of note. One basic principle, written into the Canadian model law and applied in all

provinces down to the local registrar level, is that an event can be registered only in the jurisdiction in which it occurred. The issuance of official certificates and certified copies or extracts from records are restricted to the Registrar General. The local registrar's functions are limited to the registration of events and the checking of records for completeness and accuracy; no copies are retained nor is authority granted for issuance of certificates except for a simple acknowledgment of the fact of registration. The legislation provides for certain further restrictions as to whom and in what form certificates shall be issued. For example, except for certified copies issued under special circumstances, no information as to the cause of death is contained on Canadian death certificates. The correction or alteration of records is strictly governed by regulation. The model law and provincial legislation provides for marginal notations (and/or reregistration as the case may be) on receipt of certified copies of adoption, legitimation, or change-of-name orders from recognized courts of law. Copies of such orders relating to births having occurred in another jurisdiction are forwarded by the provincial registrar to the province, state, or country concerned. In accordance with conventional practice, certificates issued from amended records are issued from the amended particulars. The model legislation provides, among the usual requirements, for penalties for non-registration, fraudulent or falsified registration, and for misuse of certificates. Much of the uniformity of provincial practice has resulted from the fact that provincial legislation since 1920 has been based entirely on the principles laid down in the model law. The Vital Statistics Council has had a marked effect on unifying Canadian practice, as have several national conferences on vital statistics at which representation from other governmental and voluntary agencies was invited. Some of these have had far-reaching implications for the system.

At the Dominion-Provincial Vital Statistics Conference of 1944, for example, the implications for vital statistics of impending social security legislation were studied. The immediate objective was the formulation of an arrangement for a relatively speedy, accurate, and efficient method of verification of the facts of birth of all children under the age of 16 in Canada. This verification process was required in connection with the implementation, on July 1, 1945, of a national scheme of Family Allowances whereby the Federal Government was to pay a monthly allowance on behalf of each child. It was imperative that the verification procedure be arranged within the provisions of the provincial vital statistics legislation, without disrupting the normal operation of the provincial registration offices, and with the maximum of speed.

Since the Family Allowances plan would require verification of births dating from January 1, 1925, it was agreed that each province would undertake as a special project the microfilming of the birth registrations comprising this backlog as well as the current registrations. From these records the Bureau of Statistics agreed to prepare indexes to be used in the Family Allowances offices for verifying the date of birth and other particulars given on application forms submitted by parents.

Two further concepts of the functions of this index arose out of later meetings of the Vital Statistics Council. The first was the possibility of linking, through a central index, such vital records as births, stillbirths, legitimations, changes of name, adoptions, marriages, dissolutions, immigration, emigration, and deaths. The second was a system of numerical identification of the individual, through his birth number, which would provide the foundation for the linkage already referred to and open a field of usefulness with tremendous scope and implication.

The cross-reference of later events applicable to the original birth record has been effected through the birth identity number, which comprises 10 digits — 2 for the year of birth, 2 for the province of birth, and 6 comprising the non-duplicating registration record number. Amendments to records covering such events as adoptions and other changes of name or status are microfilmed in the usual manner and forwarded to the Bureau for matching with the original entries. This system permits full verification for Family Allowance purposes and also provides a complete name index for provincial searching purposes. To date the use of this index has been limited to Family Allowance administrative use, where it has been found eminently efficient.

Function of the Health and Welfare Division of the Bureau of Statistics. In Canada, national vital statistics administration is a function of the Health and Welfare Division of the Bureau of Statistics. This Division deals, as does the Census Division, with the compilation of statistics on Canada's human resources — numerical change and the growth of population, the assessment of its physical attributes — and, to an increasing degree, with the interrelationship between the health of the Canadian people and their social and economic circumstances. The Division's activities in recent years have been strongly influenced by the concepts of social, as well as physical, well-being; of individual, as well as community health indices; and of the intimate connection between the fields of health and welfare. In the welfare field, statistics of crime and delinquency and of welfare institutions have been collected for some time on a large scale. In the field of health, the Division seeks primarily to secure nation-wide coverage of three areas. The first of these, the national vital statistics in both their demographic and public health features, in general measures the level of health of the country. The second area is covered by national statistics of the volume of illness and of the characteristics of the persons and families experiencing illness. The third is the measurement of the services provided by hospitals and certain welfare institutions and of the utilization of those services.

The Health and Welfare Division differs from other divisions of the Bureau in that the three areas of its responsibility are the constitutional concern of the provincial governments rather than of the Federal Government. In each case, however, the source data must be collected and compiled within the framework of either formal or informal working arrangements between the Dominion Bureau of Statistics and the provincial governments. Although these arrangements are negotiated and contracted bilaterally with each province, their substance is usually prepared beforehand at technical conferences with full provincial representation. This technique, by providing a forum for the presentation of provincial views and requirements, has proved extremely successful in preparing for subsequent Dominion-provincial agreement on the respective responsibilities of the Division and the provinces in the collection, edition, compilation, and presentation of all types of health statistics.

Coordination of Vital Statistics Nationally and Internationally. A central statistical organization such as the Dominion Bureau of Statistics facilitates the close association of the vital statistics interests with those of other related divisions of the Bureau that is essential to a coordinated system of vital statistics. As a basis for various vital statistics rates the relevant section of the Vital Statistics Unit depends directly on Census population data. Also a certain uniformity with other

divisions of the Bureau must be maintained in such matters as the descriptions of geographic areas; definitions of occupation, citizenship, and origin; and the classification of age-groupings. This correlation is particularly important in connection with the census, since the vital statistics tabulations provide one of the bases for the population estimates which bridge the periods between the censuses.

International liaison has been of great practical utility for Canadian vital statistics, as it has been in the case of the Canadian Census. Canada has been actively interested in international health statistics, notably in the revision of the classification of diseases, injuries, and causes of deaths; in the development of morbidity statistics; in the delineation of terms, definitions, and classifications; and in the compilation of specialized national statistics that might further the knowledge of current health problems. There has always been close collaboration with corresponding agencies, notably those of the United States and the United Kingdom, in the study of health statistics problems, particularly those related to the coding and classifying of causes of death. More recently, the World Health Organization has referred the problem of the international comparability of mortality statistics, and other specific health statistics problems, to Canada for special study, in collaboration with certain other member countries, with the objective of formulating international uniformity of practice throughout the world.

Publications Relative to Vital Statistics. Canadian vital statistics are routinely published in three official reports:

1. A monthly report of births, marriages, and deaths based on the total number of records filed during a particular month in the provincial vital statistics offices, regardless of the month of occurrence, but excluding delayed registrations. The primary purpose of this report is to depict, by means of charts, current trends in comparison with those of the preceding three years;
2. A preliminary annual report containing national and provincial historical summaries of population and principal vital statistics, as well as limited basic current statistics for the country as a whole and for each province;
3. A detailed annual report similar to the preliminary release but providing detailed data with extensive analyses and classifications.

In addition an annual count of divorces is released.

The Vital Statistics Section collaborates with the Census Division in the compilation of annual intercensal estimates of the population of the provinces, by marital status and age.

Several analytical series have been released on specific aspects of vital statistics. These have dealt with cancer, with maternal, infant, and neonatal mortality, and with deaths from violent and accidental causes, as well as with a historical summary on divorces. An ambitious series of analytical studies is planned for the near future, covering more current data and including historical trends and analyses of the data available since 1920. This series would include studies of: Vital Statistics Trends — primarily the demographic aspects as influenced by vital statistics; Canadian Mortality Trends — a summary report of trends in mortality from the main disease categories; Analytical Series on Mortality — from the major causes (cardio-vascular-renal diseases; cancer; infective diseases; infant, neonatal and perinatal mortality; accidental and violent deaths; motor vehicle accidents, etc.). The Vital Statistics Section has collaborated in the preparation of life tables for Canada, covering the years 1931, 1941, 1947, and 1951.

As a by-product several administrative or training documents have been released by the Section. Notable among these are: Vital Statistics Handbook — a training manual comprising a summary of principles of registration, collection, compilation, and analysis of vital statistics; Physicians' Pocket Reference — a pocket manual distributed gratis to physicians as an aid in certifying causes of death; Summary of Vital Statistics — a reprint from the official Canada Year Book summarizing significant historical data with rates and charts, which has been found useful as a teaching medium in university medical schools, schools of nursing and public health, etc.

E. J. Brower, D. L. Ralston, and H. G. Page

EUGENE M. KULISCHER We have learned with deep regret, just as we go to press, that Dr. Eugene M. Kulischer, noted authority on Russian population and manpower, died in Washington on April 2, 1956, at the age of 74. Dr. Kulischer came to this country in 1941 and served successively as consultant or staff member of the International Labour Office, the Office of Strategic Services, the Bureau of the Census, the Department of the Army, and the Library of Congress. His major works include The Displacement of Population in Europe (Montreal, 1943), and Europe on the Move (New York, 1948).

BIBLIOGRAPHY

This bibliography is compiled principally from publications available to the editors or cited in the literature. Selection is on the basis of intrinsic merit, current interest, and paucity or richness of the literature for the various areas and problems. Coverage is less complete in peripheral fields, selection less rigid in underdeveloped areas. The major resources utilized in addition to those of the Office of Population Research are the current acquisitions of the Princeton University Library, the New York Public Library, the United Nations Headquarters Library, and the Library of the New York Academy of Medicine.

The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of the official publications of national governments is assisted materially by the cooperation of the Office of the Coordinator of International Statistics, Bureau of the Census.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. Regularly recurring compilations of official statistics that are listed in the bibliographies of the United Nations Demographic Yearbook are not normally covered here. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol°.

A complete list of the sources used in the preparation of this bibliography will appear with the cumulative index at the end of the year. The following abbreviations are used for the bibliographical sources quoted in the annotations of this issue:

A.A.	- African Abstracts.
B.A.	- Biological Abstracts.
B.A.D.	- Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine. (France. Fondation National des Sciences Politiques.)
B.A.P.	- Bulletin Analytique. Philosophie. (France. Ministere de l'Education Nationale.)
C.G.P.	- Current Geographical Publications. (American Geographical Society.)
I.L.R.	- International Labour Review. (International Labour Organization.)
I.S.S.B.	- International Social Science Bulletin. (U.N.E.S.C.O.)
J.A.M.A.	- Journal of the American Medical Association.
J.I.A.	- Journal of the Institute of Actuaries.
P.A.	- Psychological Abstracts.
P.A.I.S.	- Public Affairs Information Service. Bulletin.
P.F.C.	- Publications of Foreign Countries. (U. S. Bureau of the Census.)
R.B.S.P.	- Repertoire Bibliographique Concernant la Santé Publique et la Population. (France. Ministère de la Santé et de la Population.)
S.S.B.I.	- Social Science Bibliography, India, 1952. (U.N.E.S.C.O. South Asia Science Co-operation Office.)

The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

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The conclusion is reached that "There can be little question that the development of reproduction-rate theory has fostered a richer conceptual interpretation of demographic events than was previously possible. But it also seems clear that the specific factual contents of such interpretations have often been derivable, with sufficient precision, from much simpler vital measures....many of the...findings are also implicit criticisms of the traditional theory, not so much for what it says as for what it overlooks."

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2076 Taeuber, Irene B.
Population and labor force in the industrialization of Japan, 1850-1950. Pp. 316-359 in: Kuznets, Simon, et al., Editors. Economic growth: Brazil, India, Japan. Durham, Duke University Press, 1955. xiv, 614 pp.

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2078 Vaumas, E. de
[The population of Syria.] La population de la Syrie. Annales de Géographie (Paris) 64(341):74-80. Jan.-Feb., 1955.

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[See also Titles 2004, 2016, 2049, 2051, 2144, 2155, 2249, 2364]

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2079 Balandier, Georges.
[Sociology of the Brazzaville Negroes.] Sociologie des Brazzavilles noires. Cahiers de la Fondation Nationale des Sciences Politiques, 67. Paris, A. Colin, 1955. 274 pp.

Includes quantitative and other field data on the extent of recent urbanization. Primarily an anthropological survey.

2080 Cabot, Jean, and Diziain, Roland.
[The population of the middle Logone—Chad and Cameroun. The overseas population.] Population du Moyen Logone — Tchad et Cameroun. L'homme d'outre-mer. Comptes Rendus des Missions et Etudes du Conseil Supérieur des Recherches Sociologiques d'Outre-Mer et de l'Office de la Recherche Scientifique et Technique d'Outre-Mer, Section des Sciences Humaines, No. 1. Paris, Office de la Recherche Scientifique et Technique d'Outre-Mer, 1955. 76 pp.°

2081 Clément, Pierre, and Xydias, Nelly.
[Vienne on the Rhone. The city and the

inhabitants. Positions and attitudes. Sociology of a French city.] Vienne sur le Rhône. La ville et les habitants. Situations et attitudes. Sociologie d'une cité française. Cahiers de la Fondation Nationale des Sciences Politiques, 71. Paris, Librairie Armand Colin, 1955. 278 pp.

The discussion includes a general demographic description, analyses of interoccupational relations and of attitudes towards religion and outsiders.

2082 Cohen, H.
Population and society in Baghdad province. Hamizrah Hehadash (Jerusalem) 5: 16-24. Autumn, 1953. In Hebrew, with English summary.°

2083 Dresch, Jean.
[Population and resources of new China.] Population et ressources de la Chine nouvelle. Annales de Géographie (Paris) 54 (343):177-201. May-June, 1955.°

2084 Ford, Thomas R.
Man and land in Peru. Gainesville, University of Florida Press, 1955. x, 176 pp.
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2085 Hehn, J. von.
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"Demographic, political, agricultural, industrial, and cultural situation." [B.A.D. 10(8)]

2086 Klein, W. C., Editor.
[New Guinea. The economic, social, and cultural development in Netherlands' and Australian New Guinea.] Nieuw Guinea. De ontwikkeling op economisch, sociaal en cultureel gebied, in Nederlands en Australisch Nieuw-Guinea. The Hague, Staatsdrukkerij en -Uitgeverijbedrijf, 1953-1954. 2 vols. 491 and 470 pp.

2087 Lewis, I. M.
Peoples of the Horn of Africa: Somali, Afar, and Saho. Ethnographic Survey of Africa: North Eastern Africa, Part 1. London, International African Institute, 1955. 200 pp., folding map.
A survey of available literature.

2088 Link, Arthur S.
American epoch. A history of the United States since the 1890's. New York, Knopf, 1955. xxii, 724 pp.
Contains discussions of the demographic characteristics and trends of the periods, 1900-1910, 1920-1930, 1930-1953. Also discussion of immigration policies.

2089 Pedler, F. J.
Economic geography of west Africa. London, Longmans, Green and Co., 1955. xii, 232 pp.
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2090 Pitts, F. R., et al.
Post-war Okinawa. Scientific Investigations in the Ryukyu Islands, 1951, No. 8. Washington, Pacific Science Board, 1955. 232 pp.°

2091 Wasowicz, Jozef.
Ten years of People's Poland. Outline of economic geography. Warsaw, Polonia Foreign Languages Publishing House, 1955. 60 pp.
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2092 Weigt, Ernst.
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2093 Wellington, John H.
Southern Africa: a geographical study. Vol. II. Economic and human geography. Cambridge, England, The University Press, 1955. xviii, 284 pp., 4 maps in pocket.
Sectional headings: Land utilization; Mineral and other industries; The people.

2094 Yu Yuan-Li.
An economic survey of communist China. New York, Bookman Associates, 1956. x, 566 pp.
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C. SPATIAL DISTRIBUTION

General Spatial Distribution

2095 Adams, Leonard P., and Mackesey, Thomas W.
Commuting patterns of industrial workers. A study of experience since 1940 in the Northeastern region. Cornell University Housing Research Center, Research Publication, 1. Ithaca, Cornell University, 1955. vi, 136 pp., processed.
Contents: World War II experience; Post-

war status; Current commuting patterns of selected upstate New York areas; Some implications of journey to work patterns [including definitions distinguishing "migration" and "commuting"]; Appendix; Bibliography.

2096 Birkner, Hans.
[Commuting in the German Federal Republic. Results of the population and occupation censuses of September 13, 1950.] Die Pendelwanderung in der Bundesrepublik Deutschland. Ergebnisse der Volks- und Berufszählung am 13.9.1950. Wirtschaft und Statistik (Stuttgart) 7(10):491-495. Oct., 1955.
Analysis by Länder, county, and city, and by industry, sex, age, and marital status of commuters.

2097 Bogue, Donald J.
Nodal vs. homogeneous regions, and statistical techniques for measuring the influence of each. Paper read at the meetings of the International Statistical Institute in Rio de Janeiro, June, 1955. 16 pp. In English with French summary.
Definitions, uses, techniques of measurement and interpretation of two types of region (economic region and metropolitan region), with illustration from U.S. data and recommendations for statistical administration.

2098 Bunting, Robert L.
Commuting and wage relatedness. Southern Economic Journal 22(3):370-372. Jan., 1956.
Notes on hinterlands of cities and towns in North Carolina.

2099 Green, Howard L.
Hinterland boundaries of New York City and Boston in southern New England. Economic Geography 31(4):283-300. Oct., 1955.
The purpose of this paper is to define and analyze the hinterland boundaries in southern New England between the two metropolitan communities. Reviews previous definitions and applies tests of functional indicators; transportation (truck, railroad, ship); communications (newspaper circulation, telephone calls); agriculture; recreation, manufacturing, and finance.

2100 Holas, B.
[The settlements of the Ivory Coast.] Les peuplements de la Côte d'Ivoire. Cahiers Charles de Foucauld (Paris) 35(1):49-69. 1954.°

2101 Moolman, J. H., et al.
Population distribution map of the Union of South Africa, 1951. Natural Resources Development Council, 1954. 2 sheets, 1: 1,500,000. In English and Afrikaans. Accompanied by 12 page text in English and Afrikaans.°

2102 Nederlandsch Economisch Instituut. Instituut voor Economische Geschriften.
[Population and population density.] Bevolking en bevolkingsdichtheid. Economisch-Statistische Berichten (Rotterdam), No. 1984, June 22, 1955. P. 567.
Table of world population and areas by continents in 1953, with comparable data for a few countries in each. Comment.

2103 L'Orange, Hans.
[New population map of Norway.] Nytt bosettingskart over Norge. Statistiske Meldinger (Oslo) 73(2):56-66. 1955.
Description of content and techniques.

2104 Rajaković, Z.
[Urban and rural population of Croatia.] Ekonomski Pregled (Zagreb) 5(9):545-557. 1954. In Serbo-Croatian.°

2105 Schmid, Calvin F., and MacCannell, Earle H.
Basic problems, techniques and theory of isopleth mapping. Journal of the American Statistical Association 50(269):220-239. March, 1955.
Problems discussed: implications of size of base area, location of control point, determining size intervals, interpolation problems and techniques, statistical theory and isopleth mapping, technique for constructing a statistically valid isopleth map. Illustrations.

2106 U.S. Bureau of the Census. Census Atlas Project.
Census atlas maps of Latin America. Part I. Central America. Washington, 1955. Portfolio of 9 maps, with leaflet, 4 pp., processed.
Maps comprise four general maps and five urban and rural population maps for, respectively: Guatemala-British Honduras; Honduras and El Salvador; Nicaragua; Costa Rica; Panama. For each are shown population centers and densities of rural population not included in these centers. This portfolio prepared under the supervision of F. Webster McBryde.

2107 Vrana, O.
[Density of population in the Liberec District.] Sbornik (Prague) 59(3):129-139. 1954. In Czech.°

2108 Yonetani, Seiji.
[Center of population in Kyushu.] The Geographical Review of Japan (Tokyo) 28 (5):249-254. May, 1955. In Japanese with English summary.°

[See also Titles 2039, 2053, 2060, 2094, 2131]

Urban Patterns

2109 Ahlberg, C. F.
[The planning of greater Stockholm.] Die Planung Gross-Stockholms. Raumforschung und Raumordnung (Bonn), No. 2, 1955. Pp. 93-97.
"The distribution of the population in the city and suburbs; different plans developed, their objectives and point of view; building regulations, maps." [B.A.D. 10(8)]

2110 Bulletin Economique et Social de la Tunisie.
[Urbanism and housing problems in Tunisia.] Urbanisme et problème du logement en Tunisie. Bulletin Economique et Social de la Tunisie (Tunis), May, 1955. Pp. 70-88.
"The development of construction; the lack of sufficient low cost housing; the necessity of urban planning, taking into account the resources and characteristics of the country as well as the demographic development." [B.A.D. 10(7)]

2111 Cowgill, Donald O.
Trends in residential segregation of nonwhites in American cities, 1940-1950. American Sociological Review 21(1):43-47. Feb., 1956.
Scores of fifty selected American cities, 1940 and 1950.

2112 Detroit. Commission on Community Relations.
Maps of 1950 Detroit population. Racial and nationality group distribution. Detroit, [1955]. 26 pp.
Based on 1940 and 1950 census data.

2113 France. Préfecture de la Seine. Direction du Cabinet du Préfet.
[Statistical yearbook of the city of Paris and the suburban communes of the Seine, 1951. 72nd year.] Annuaire statistique de la ville de Paris et des communes suburbaines de la Seine. Année 1951. Soixante-douzième année. Paris, Masson, 1955. XXVIII, 558 pp.
Part I, Démographie, contains sections on past records, and population change for the city of Paris and for the suburban communes.

2114 Italy. Documentation Centre.
The growth of population in Rome. An increase of 1,067,961 inhabitants registered between 1921 and 1953. Italian Affairs (Rome) 4:839-842. July, 1955.
"From 1921 to 1953 Rome has grown by more than a million inhabitants; 70 per cent of this is due to immigration." [B.A.D. 10(8)]

2115 Kendall, Henry.
Town planning in Uganda; ...efforts by the Government to control development of urban areas from 1915 to 1955. Entebbe, Uganda, Govt. Printer, 1955. 91 pp.

2116 Kovacsics, Jozsef.
[City and village statistics.] Varos- es kozsegstatisztika. Budapest, Statisztikai Kiadovall, 1954. 268 pp.°

2117 Michel, Andrée.
[The population in furnished hotel rooms in Paris: composition and conditions of existence.] La population des hôtels meublés à Paris: composition et conditions d'existence. Population (Paris) 10(4):627-644. Oct.-Dec., 1955.
Statistical study of housing conditions in two Paris arrondissements, a successor study to one by the same author cited in 21:Title 1039.

2118 New York. Regional Plan Association.
Metropolis in the making. The next twenty-five years in the New York metropolitan region. Proceedings of the 25th anniversary celebration of the... held at the Roosevelt Hotel, New York, N.Y., on Oct. 6, 1954. New York, 1955. [iv], 88 pp.

2119 Paassen, Chr. van.
[Urban overpopulation. A neglected aspect of the theory on overpopulation.] Stedelijke overbevolking, een verwaarloosd aspect van de theorie der overbevolking. Tijdschrift voor Economische en Sociale Geographie (Rotterdam) 46(12):265-276. Dec., 1955. With English summary.
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2120 Redick, Richard W.
Population growth and distribution in central cities, 1940-1950. American Sociological Review 21(1):38-43. Feb., 1956.
Study of the "central city area" as defined by the Bureau of the Census for 23 cities in the United States.

2121 Southern Regional Education Board.
Urban research in the South. A survey of city-planning oriented urban research undertaken by institutions of higher education in fourteen southern states, 1949-1954. Atlanta, May, 1955. 35 pp., processed.
Both published and unpublished work is included.

2122 Waszak, S.
[Poznan in the light of demographic studies.] Przeglad Zachodni (Poznan) 11(1-2): 5-42. Jan.-Feb., 1955. In Polish.°

2123 Whipple, Howard.
Family and housing characteristics. 1955 edition. Real Property Inventory of Metropolitan Cleveland, Report 32, Part 1. Cleveland, 1955. 40 pp.°

[See also Titles 2079, 2081, 2096-2099, 2130, 2131, 2134, 2138, 2139, 2142, 2225, 2300, 2304]

Rural Patterns

2124 Fearn, E. A.
Population as a factor in land usage in the Nyanza Province of Kenya Colony. East African Agricultural Journal (Amani, Tanganyika) 20(3):198-200. Jan., 1955.
"Until adequate information is available regarding density, distribution and growth of the indigenous African population there is little possibility of developing a successful agricultural policy." [A.A. 7(1)]

2125 Massachusetts Institute of Technology. Center for International Studies.
Agriculture: land, men and organization in Italy. Economic Development Program, Italy Project, Working Papers, No. Bibliography/2-Economics (Agriculture). Cambridge, 1953. 15 pp.°

2126 Morgen, W. B.
Farming practice, settlement plans and population density in South-Eastern Nigeria. Geographical Journal 121, Pt. 3:320-334. Sept., 1955.°

2127 Stanczyk, M.
[Agrarian overpopulation in capitalist Poland.] Ekonomista (Warsaw), No. 1, 1955. Pp. 94-116. In Polish.°

2128 Wurzbacher, Gerhard.
[The village in the magnetic field of industrial development. A study of 45 villages in a West German district.] Das Dorf im Spannungsfeld industrieller Entwicklung: Untersuchung an den 45 Dörfen und Weilern einer westdeutschen ländlichen Gemeinde. Stuttgart, Ferdinand Enke, 1954. xii, 307 pp.°

[See also Title 2386]

D. TRENDS IN POPULATION SIZE

Past Trends

2129 Austria. Statistisches Zentralamt.
[The population of the world from 1920 to 1953.] Die Bevölkerung der Erde 1920 bis 1953. Statistische Nachrichten 10(10): 397-398. Oct., 1955.
Comparison of United Nations data on total numbers by continents and the principal countries of Europe. Tables and charts.

2130 First Research Corporation.
Population trends in the Caribbean area. Miami, 1955. 4 pp., with chart and table. ["One of a continuing series prepared for the executive." Includes projections to 1970.]
Population trends. Principal cities of the Caribbean. Miami, 1955. 4 pp., with maps and table. [Includes estimates for 1955.]

2131 Schmid, Calvin F.
Population growth and distribution, State of Washington. Seattle, Washington State Census Board, 1955. 102 pp., processed.
Summary of data since 1900, with particular emphasis on changes since 1940. Chapters on growth of population, population distribution, urban population growth and distribution. Contains data, including tables, maps, and charts, from previous publications, as well as new data and graphics.

2132 Ziverts, Karlis.
The population of Latvia under Soviet occupation. East and West (London), No. 4, 1955. Pp. 44-50.
"Numerical evaluation of the loss of inhabitants in Latvia since the commencement of World War II." [P.A.I.S. 42(9)]

[See also Titles 2034, 2037, 2043, 2046, 2047, 2051, 2074, 2075, 2120, 2482, 2534]

Estimates

2133 Alaska. Resource Development Board.
Estimate of Alaska population, July 1,

1953, to June 30, 1954. Report No. 3. Juneau, 1955. 7 pp., processed.

"In cooperation with other Alaska offices. Detailed population estimates by months." [Planning 11(24)]

2134 Atlanta Metropolitan Planning Commission.

Population-housing, 1950-1955. Estimates for census tracts. DeKalb-Fulton Metropolitan Area. Atlanta, April, 1955. iii, 23 pp., 1 folded sheet, processed.

2135 California. State Department of Finance.

Estimated population of California's areas and counties, 1950-1955. Sacramento, 1955. [ii], 22 pp., processed.

Includes illustrative projections of total population, California's state economic areas, July 1, 1980, and notes on methods and sources. Appendix gives definition of state economic areas and statistical areas.

2136 Campuzano, Miguel M.

[A contribution to the study of the population census of the Spanish Sahara.] Contribución al estudio del censo de población del Sahara Español. Madrid, Instituto de Estudios Africanos, Consejo Superior de Investigaciones Científicas, 1954. 94 pp.

Methodological notes and summary of findings on population estimates based on family units for each of the tribal groups.

2137 Palmer, Edgar Z.

Nebraska county populations, 1954. University of Nebraska News: Business in Nebraska, Aug., 1955. P. 1 +.°

2138 Philadelphia City Planning Commission.

Estimates of population and dwelling units in Philadelphia, April 1, 1955. Public Information Bulletin, No. 6-C. Philadelphia, Sept., 1955. 32 pp.

Notes on method, summary of findings, maps and tables. Comparative data of 1950 and 1955, by census tracts.

2139 Rand McNally and Company. Map Publications Editorial Department.

United States metropolitan areas of 100,000 or more, 1955. U.S. Series, No. 2. Chicago, Oct. 31, 1955. 18 pp., processed.

Notes and tables on growth between 1950 and 1955. "This study originally appeared in abbreviated form in the July, August, September, and October, 1955, issues of The Business Trend, the monthly supplement to the Commercial Atlas."

2140 U.S. Agricultural Marketing Service.

Farm population estimates for 1955. Agriculture-Washington AMS-80. Washington, Dec., 1955. 9 pp., processed.

Tables of estimated changes by natural increase and migration by regions and geographic divisions, based on the sample survey of April 1955.

2141 U. S. Bureau of the Census.

Current Population Reports. Series P-25. Population estimates. Washington, 1947-.

Nos. 1-124. See 22:Title 1086.

No. 125. Provisional estimates of the civilian population of continental United States, by regions, divisions, and states, and of Alaska, Hawaii, Puerto Rico, the Canal Zone, and the Virgin Islands: July 1, 1955. Nov. 8, 1955. 2 pp.

Nos. 126-128. Provisional estimates of the population of the United States: January 1, 1950, to.... 1 p. ea. [to December 1, 1955, appeared January 16, 1956.]

No. 129. Provisional estimates of the population of states: July 1, 1955. Jan. 20, 1956. 4 pp.

No. 130. Estimates of the civilian population of states, by broad age groups: July 1, 1950 to 1954. Jan. 23, 1956. 12 pp.

2142 Washington. State Census Board.

Population of towns and cities in the state of Washington, April 1, 1954, with a supplement on population census of Snohomish County, June 14, 1954. Seattle, Aug. 1, 1954. 18 pp., processed.

Text, maps and tables on changes in urban distributions, 1950-1954, and a tabulated list of estimated town populations of record, April 1, 1954.

[See also Titles 2130, 2132, 2180, 2193, 2318, 2325, 2465, 2532]

Projections and Predictions

2143 Dijon, Henri.

[Demography: the development of the French population to 1970.] Démographie: l'évolution de la population française jusqu'en 1970. Economie et Realités Mondiales (Paris), No. 70, Nov., 1955. Pp. 46-53.

Summary and comment on the study cited in 21:Title 4157, with special reference to policy problems in the next 10 years suggested by the projections of labor force and school populations.

2144 Germany. Federal Republic. Statistisches Bundesamt.

[The probable development of the population to 1982. The results of a population projection in the Federal area.] Die vor-

aussichtliche Bevölkerungsentwicklung bis 1982. Ergebnisse von Vorausberechnungen der Bevölkerung im Bundesgebiet. Statistik der Bundesrepublik Deutschland, Band 119. Stuttgart-Cologne, 1955. 44 pp.

Tables and text discussing results of the computations (growth of total numbers, changes in sex ratio, changes in age structure), assumptions and computation methods for the projections without regard to migration (mortality, organization according to marital status, fertility and the computation of future births), the computation of a stable population on optimistic and pessimistic assumptions, modifications through the influence of migration on population growth.

2145 Nielson, Howard C.
Population trends in the United States through 1975. Total United States. Census regions. Eleven western states. Menlo Park, Stanford Research Institute, 1955. 58 pp., processed.

Sections include: Principal findings [recent birth, death, and migration trends and their effects, population projections, uses of age-sex distributions]; Tabular and graphical presentations; Projection methods and supporting data. Appendix: Census regions.

2146 Strand, William H.
Forecasting enrollment in the public schools. University Microfilms Publication No. 10,393. Ann Arbor, University Microfilms, 1954. Microfilm copy of typescript: xiii, 481 pp.°

2147 Turner, Robert C.
The American economy in 1970. Pp. 9-21 in: Wallace O. Yoder, Editor. The college graduate in the American economy, 1970. Indiana Business Information Bulletin, No. 23. Bloomington, Indiana University, Bureau of Business Research, School of Business, 1955. 64 pp.

[See also Titles 2056, 2074, 2130, 2213, 2347, 2453, 2465]

E. MORTALITY

General Mortality

2148 Cook, Robert C.
Life grows longer. Population Bulletin 11(8):109-123. Dec., 1955.

Summary of United States data on differential mortality.

2149 Denffer, H. von.
[On minor mortality fluctuations in studies of extra risks.] Über die zufälligen Sterblichkeitschwankungen bei Untersuchungen an erhöhten Risiken. Blätter der Deutschen Gesellschaft für Versicherungsmathematik (Würzburg) 2(1):71-84. 1954.

"Poisson's law and the Normal approximation are used to provide confidence limits and χ^2- tests to assist in the classification of risks...." [J.I.A. 81, III(359)]

2150 Dorn, Harold F.
Some problems for research in mortality and morbidity. Public Health Reports 71(1):1-5. Jan., 1956.

Paper presented to the Population Association of America meeting, Princeton, May, 1955. Rural and urban differences in mortality. Geographic variations in mortality. Mortality by occupation. Fetal mortality. Mortality rates by sex. Mortality during old age. Morbidity.

2151 France. Institut National d'Hygiène.
[General mortality in certain French towns.] Mortalité générale dans un certain nombre de villes de France. Bulletin de l'Institut National d'Hygiène 9(4):928-929. 1954.°

2152 Frauenfelder, W.
[Observations on mortality of individual policy holders of a Swiss life insurance and annuity organization.] Beobachtungen über die Sterblichkeit bei den Einzel-Kapitalversicherung der Schweizerischen Lebensversicherungs- und Rentenanstalt. Mitteilungen der Vereinigung Schweizerischer Versicherungsmathematiker (Bern) 54, Parts 1 and 2:15-37. 1954.

"An investigation of the mortality experience of a large Swiss life office during the years 1940-50. The final graduated table (RAE 1940/50) aggregates all years of assurance, both sexes, industrial and ordinary business, and both medical and non-medical risks. However, figures are provided to show the mortality differences between medical and non-medical cases and between males and females. Secular trends are investigated for eight broad categories of cause of death." [J.I.A. 81, III(359)]

2153 Lang, R.
[Evaluation of mortality data of limited scope.] Bewertung von Sterblichkeitsbeobachtungen an kleinem Material. Blätter der Deutschen Gesellschaft für Versicherungsmathematik (Würzburg) 2(1):7-37. 1954.

See also: Helbig, M., and Storck, H. Bewertung von Sterblichkeitsbeobachtungen an kleinem Material. Ibid., pp. 39-59.

"These two papers shared a prize offered

for a monograph on the treatment of scanty mortality observations. Both are essentially expository and describe the application of confidence intervals and the χ^2-test in mortality statistics." [J.I.A. 81, III(359)]

2154 Metropolitan Life Insurance Company.
State variations in longevity. Statistical Bulletin 36(10):3-5. Oct., 1955.

2155 Paes Moraes, J. J.
[Some aspects of mortality in Portugal.] Alguns aspectos da mortalidade em Portugal. Revista de Economia (Lisbon) 8(2): 45-59. June, 1955. With French summary.
Examination of Portuguese data, 1930-1953. Rates of general mortality by sex, marital status, cause, age. Infant and neonatal mortality. Rates of natural increase and growth prospects.

2156 Sarmento, Alexandre.
[Aspects of mortality trends in the city of Luanda.] Aspectos e evolução da mortalidade na cidade de Luanda. Boletim Geral do Ultramar (Lisbon) 30(359):81-89. May, 1955.
Presentation of data and rates, showing marked declines, for the total and for the non-white population in 1941, 1950, and 1954.

[See also Titles 2013, 2014, 2023, 2169, 2175, 2185, 2189, 2191, 2247, 2363]

Prenatal Mortality

[See Titles 2150, 2157, 2159, 2161, 2162, 2165, 2168, 2193, 2207, 2461]

Infant Mortality

2157 Alison, F., and Corone, M.
[Infant mortality and still-born rate in France, 1953.] La mortalité foeto-infantile en 1953. Bulletin de l'Institut National d'Hygiène (Paris) 9(3):567-572; (4):816-830. July-Aug.-Sept., and Oct.-Nov.-Dec., 1954.°

2158 Alison, F., and Corone, M.
[Infant mortality in certain important cities.] La mortalité infantile dans certaines villes importantes. Bulletin de l'Institut National d'Hygiène (Paris), No. 2, April-June, 1954. Pp. 403-406.°

2159 Anderson, George W.
Current trends in the pathology of human reproduction failure. American Journal of Public Health and the Nation's Health 45(10): 1259-1266. Oct., 1955.
Analysis of U. S. data on perinatal mortality by cause, and consideration of a coordinated approach to prevention.

2160 Concours Médical.
[Infant mortality according to the national institutes of statistics and hygiene.] La mortalité infantile d'après les instituts scientifiques nationaux de statistique et d'hygiène. Concours Médical (Paris) 77(2): 175-182. Jan. 8, 1955.°

2161 Deeny, J. A.
Perinatal mortality in Ireland. Irish Journal of Medical Science (Dublin) 6(356): 349-370. Aug., 1955.°

2162 Gold, E. M.
Perinatal mortality. Journal of the American Medical Association 159(4):244-247. Sept. 24, 1955.
Discussion of the concept and data from New York City, 1946-1953, on rates and causes.

2163 Joppich, Gerhard, Editor.
[Mortality in the first days of life. Report on the conference of the German organization for child health care.] Die Sterblichkeit der ersten Lebenstage. Bericht über die Tagung der Deutschen Vereinigung für die Gesundheitsfürsorge des Kindesalters. Berlin, Deutsche Vereinigung für die Gesundheitsfürsorge des Kindesalters, 1955. 70 pp.°

2164 Lambeth, S. S.
A five year newborn mortality report. Journal of the Tennessee State Medical Association 48(8):293-296. Aug., 1955.°

2165 Lefebvre, V. Lesaffre, et al.
[Survey of fetal and infant mortality in Pas-de-Calais and Haute-Vienne.] Enquête sur la mortalité foeto-infantile dans le Pas-de-Calais et dans la Haute-Vienne. Bulletin de l'Institut National d'Hygiène (Paris), No. 3, July-Aug.-Sept., 1954. Pp. 573-611.°

2166 Maurin Navarro, J. S.
[Graphic analysis of quantitative, structural and dynamic characteristics of infant mortality in Argentina.] Síntesis gráficas sobre características cuantitativas, estructurales y dinamicas de la mortalidad infantil Argentina. Revista de la Asociación Médica Argentina (Buenos Aires) 69 (795-796):128-135. May 15-30, 1955.°

2167 Nehaul, B. B.
Trends in infant mortality rate in Brit-

ish Guiana. Journal of Tropical Medicine and Hygiene (London) 58(8):187-189. Aug., 1955.°

2168 Op de Beeck, F. J.
[Obstetric and medical-social aspects of perinatal mortality.] Enkele obstetrische en medisch-sociale aspecten van de perinatale sterfte. Nederlandsch Tijdschrift voor Verloskunde en Gynaecologie (Harlem) 55(2):131-142. 1955.°

2169 Peters, Henriette.
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[See also Titles 2075, 2188, 2207, 2455]

Mortality at Other Ages

2173 Gelderen, H. H. van.
[Data from the analysis of mortality statistics of young children.] Enkele gegevens uit een kleutersterfte analyse. Maandschrift voor Kindergeneeskunde (Leiden) 23(6):192-301. June, 1955.°

2174 Janssens, P. G.
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[Child mortality in families of the workers of the Kilo-Moto gold mines.] Over de kleutersterfte in de arbeidersgezinnen van de Kilo-Moto goudmijnen. Ibid., pp. 151-171.

2175 Moriyama, Iwao M.
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[See also Titles 2180, 2193, 2194]

Life Tables

2176 Arias B., Jorge.
[Life tables for the municipality of Guatemala, 1921-1940-1950.] Tablas de mortalidad para el Municipio de Guatemala 1921-1940-1950. Revista del Colegio Médico de Guatemala 4(4):315-334. Dec., 1953.
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Construction of mortality tables from population data. Transactions of the Actuarial Society of Australasia (Sydney) 8:73-94. 1953.
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"A composite group of lives is considered as made up of a number of subgroups for each of which Makeham's Law applies. This means that the mortality law of the whole group is not that of Makeham.... The article shows that by an ingenious choice of boundary conditions the fit can be achieved mathematically. Various interpretations of 'mean value' are used." [J.I.A. 81, III(359)]

2179 García-Frías, Roque.
[Interpolation method of constructing complete life tables.] Procedimiento de interpolación para la construcción de una tabla completa de mortalidad. Estadística

(Washington, D.C.) 13(48/49):416-427. Sept.-Dec., 1955.

Description of a simple method of interpolation which permits passing from the abridged life table to the complete table.

2180 Illinois. State Department of Public Health. Bureau of Statistics.

The aging of Illinois' population. Health Statistics Bulletin Special Release, No. 21. Springfield, Ill., Aug. 1, 1955. 22 pp.

"Prepared for the Governor's Conference on Aging, August 9-12, 1955. Population estimates and life tables prepared and constructed by John H. Vinyard, Jr. Analysis and text prepared by O. K. Sagen and John H. Vinyard, Jr."

Contains life tables by single years for male and female, white and nonwhite, for Illinois as a whole and for Chicago and the rest of the state separately, 1949-51. Also age-specific death rates, 1920, 1950, 1954, by sex. Map, Life expectancy: selected areas, Illinois, 1949-1951.

2181 Illinois. State Department of Public Health. Bureau of Statistics.

Life table construction methods and abridged tables, Illinois, 1949-1951. By John H. Vinyard, Jr. Health Statistics Bulletin Special Release, No. 22. Sept. 10, 1955. 22 pp.

"This special release supplements Release 21 by (a) offering abridged life tables for selected areas of the state, (b) specifying the methods of computation for the single year and abridged life tables, and (c) presenting the raw data from which the computations were made."

2182 Japan. Division of Health and Welfare Statistics. Welfare Minister's Secretariat.

The 9-th life table. Tokyo, 1955. x, 208 pp. In Japanese with English titles and summary.

Computed on the basis of the 1950 census population and the vital statistics during the period Oct. 1, 1950 - Sept. 30, 1952. Notes on methods and comparison with 8th life table. Summary tables give values of the 1st-8th life table series and international comparisons. Appendix: Actuarial tables, male and female. Annuity tables, males only.

2183 Jecklin, H.

[The Lidstone approximation formula and the Makeham function.] Lidstonesche Näherungsformel und Makehamsche Funktion. Blätter der Deutschen Gesellschaft für Versicherungsmathematik (Würzburg) 2(1):61-70. 1954.

"Further notes on the re-graduation of mortality tables by the relation $\ddot{a}_{\overline{xn|}} = A_n + q_x B_n$ and on the valuation simplifications that result." [J.I.A. 81, III(359)]

2184 New Zealand. Census and Statistics Department.

Table of working life, 1951. Male population (including Maoris). Wellington, 1955. 16 pp., processed.

Textual summary and note on methods. Tables include working life expectancy for the whole male population 1951, compared with expectancy of period outside the labor force. Tables also give the components of the labor force data on working life.

2185 Stolnitz, George J.

Life tables from limited data: a demographic approach. Princeton, Office of Population Research, 1956. xiv, 164 pp., processed.

New methods for the estimation of life tables from single or isolated censuses with only limited or no information on deaths by age, intended for use in statistically underdeveloped areas which have censuses but no death registration systems. Presentation of two new life tables for the American native-white population about 1890 and the native population of Brazil about 1940. Discussion of uses for the methods.

2186 Switzerland. Eidgenössisches Statistisches Amt.

[Swiss life tables, 1941/50 and 1948/53. Basic figures and net worth values.] Schweizerische Volkssterbetafeln 1941/50 und 1948/53. Grundzahlen und Nettowerte. Statistische Quellenwerke der Schweiz, Heft 282, Reihe Bk. 6. Berne, 1955. 24*, 86 pp., with duplicate text in French.

Life tables, insurance and actuarial data for single and joint lives.

See also: Sterbetafeln 1941/50 und 1948/53. Pp. 122 and 123 in: Statistisches Jahrbuch der Schweiz 1954. Basel, 1955. X, 628 pp. See Title 2530, this issue.

[See also Title 2448]

Mortality by Social and Economic Groups

2187 Dalgaard, J. B.

[Types and causes of death of Danish soldiers in peace time.] Dødsmåder og dødsårsager blandt danske soldater i fredstid. Militaerlaegen (Copenhagen) 61(2):33-46. June, 1955.°

2188 Guerreiro Ramos, Alberto.
[Sociology of infant mortality.] Sociología de la mortalidad infantil. Translated from the Portuguese by Carlos H. Alba. México, D. F., Universidad Nacional, Biblioteca de Ensayos Sociologicos, Instituto de Investigaciones Sociales, 1955. 251 pp.
Part I deals with the general theory of sociological factors in infant mortality, and Part II applies these to Brazilian experience and policy.

2189 Hamilton, C. Horace.
Ecological and social factors in mortality variation. Eugenics Quarterly 2(4):212-223. Dec., 1955.
A progress report of mortality trends over the past ten years, focused on North Carolina. Explanation of variations in mortality rates between counties and subregions by means of multiple correlation of age-adjusted mortality rates to geographical area and eight socio-economic variables. Census data of 1940 and 1950.

2190 Tabah, Léon.
[Mortality according to social class.] La mortalité selon la classe sociale. Le Concours Médical (Paris) 77(28):2839-2846. July 9, 1955.°

2191 Yeracaris, Constantine A.
Differential mortality, general and cause-specific in Buffalo, 1939-41. Journal of the American Statistical Association 50(272):1235-1247. Dec., 1955.
"This paper....summarizes...a study undertaken to combine and retest previous methodological and substantive findings concerning mortality in a metropolis. It presents for the city of Buffalo, New York: (1) differentials in mortality from all causes; (2) cause-specific mortality differentials, and (3) infant mortality differentials." Mortality data of 1939-41 and demographic characteristics from the 1940 U.S. census. Socio-economic groups based on classification of census tracts by the median rental of residences in each.

[See also Titles 2150, 2174]

Mortality by Cause

2192 Dolgov, N. V.
[Results of work on liquidation of malaria as a mass disease.] Meditsinskaia Parazitologiia i Parazitarnye Bolezni (Moscow), No. 3, July-Sept., 1954. Pp. 234-237. In Russian.°

2193 Emerson, Haven, and Hughes, Harriet E.
Supplement 1936-1953 to Population, births, notifiable diseases and deaths, assembled for New York City, New York, 1866-1938, from official records. New York, The DeLamar Institute of Public Health, College of Physicians and Surgeons, Columbia University, Jan., 1955. Variously paged.
Tabulated data include: census populations and estimates; live births; fetal deaths; deaths all causes, by sex and age groups; deaths by cause and by sex and age, 1936-1953, in order of rubrics (1-985) in the Sixth revision of the international list of diseases and causes of death, adopted 1948.

2194 France. Institut National d'Hygiène.
[Sex and age in relation to the morbidity and mortality of infectious diseases in France during 1953.] Incidence du sexe et de l'âge sur la morbidité et la mortalité par maladies infectieuses en 1953. Bulletin de l'Institut National d'Hygiène 9(4):831-849. Oct.-Nov.-Dec., 1954.°

2195 France. Institut National de la Statistique et des Etudes Economiques. Direction Générale.
[A note on the causes of death according to marital status.] Note sur les causes de décès suivant l'état matrimonial. Bulletin Mensuel de Statistique, Supplement Trimestriel, July-Sept., 1955. Pp. 66-75.
Crude data and rates for 1950, 1951, 1952.

2196 Herrmann, Algard-Hedwig.
[Maternal mortality in Bavaria.] Die Müttersterblichkeit in Bayern. Zeitschrift des Bayerischen Statistischen Landesamtes (Munich) 86(1/2):17-24. July, 1954.°

2197 Kellar, R., and Thompson, E. W.
The causes and prevention of maternal mortality. Journal of the Irish Medical Association (Dublin) 37(219):269-280. Sept., 1955.°

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[Changes in and characteristics of the course of tuberculosis in the postwar period.] Klinicheskaia Meditsina (Moscow) 32 (12):20-24. Dec., 1954. In Russian.°

2199 Lane, G. C.
Accident mortality in Australia. Transactions of the Actuarial Society of Australasia (Sydney) 8:135-163. 1953.
"Analyses the data by periods, cause of accidental death, occupation, and State. Particular attention is paid to fatal auto-

mobile and motorcycle accidents." [J.I.A. 81, III(359)]

2200 León, Alberto P.
[Statistical analysis of the causes of death. Leading public health problems in Mexico.] Análisis estadístico de las causas de mortalidad. Problemas principales de salud publica en México. Boletín de la Sociedad Mexicana de Geografía y Estadística (México, D. F.) 77(2-3):345-361. March-June, 1954.
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2201 Lew, Edward A.
Cancer of the respiratory tract: recent trends in mortality. Journal of the International College of Surgeons (Chicago) 24 (1, Part I):12-27. July, 1955.°

2202 Metropolitan Life Insurance Company.
The leading causes of accidental death. Statistical Bulletin 36(10):6-8. Oct., 1955.
Diabetes mortality in recent years. Ibid., pp. 8-10.
Fatal accidents in autumn and winter. Ibid. (11):8-10. Nov., 1955.
Marked decline in tuberculosis among children. Ibid., pp. 5-8. [Age-specific death rates for ages 1-14 years.]
Accidental deaths rise in 1955. Ibid. (12): 5-7. Dec., 1955.
Factors in the trend of heart disease. Ibid., pp. 7-10.

2203 Moine, M., and Moine, C.
[Maternal mortality by age and cause of death in various countries.] Mortalité maternelle suivant l'âge et la cause du décès en divers pays. Bulletin de l'Institut National d'Hygiène (Paris) 9(4):915-927. Oct.-Dec., 1954.°

2204 Rabukhin, A. E.
[Characteristics of the course of tuberculosis in recent years.] Klinicheskaia Meditsina (Moscow) 32(12):8-12. Dec., 1954. In Russian.°

2205 Revista de Obstetricia y Ginecologia.
[Series of articles on maternal mortality in Venezuela.] Revista de Obstetricia y Ginecologia (Caracas), Vol. 15, No. 1. 1955.
Sanchez Carvajal, M. A., et al. [Maternal mortality in Caracas, 1939-1953.] Mortalidad materna en Caracas, 1939-1953. Pp. 21-94.
Dexeus Font, S. [Commentary on the official report on maternal mortality.] Commentario a la ponencia oficial sobre mortalidad materna. Pp. 95-113.
Luis Perez, M. [Comments on the maternal mortality report.] Comentarios al relato sobre mortalidad materna. Pp. 115-133.
Ramirez-Olivella, J. [Maternal mortality in the Maternidad América Arlas: statistical contribution to the report, Maternal mortality in Caracas.] Mortalidad materna en la Maternidad América Arlas: contribución estadística a la ponencia Mortalidad materna en Caracas. Pp. 135-148.
De Shelly Hernandez, R. Mortalidad materna. Pp. 149-163.
Suarez, Herrera R. [Various aspects of maternal mortality in Maracaibo.] Algunos aspectos de la mortalidad materna en Maracaibo. Pp. 165-177.
Jiminez Ortega, A. [Maternal mortality in the Central Hospital Dr. Urquinaona of Maracaibo during the five-year period 1950-1954.] Mortalidad materna en el Hospital Central Dr. Urquinaona, de Maracaibo, durante el quinquenio 1950 a 1954. Pp. 179-185.
Arcay Sola, A., et al. [Maternal mortality in the obstetrical service of the Central Hospital of Valencia.] Mortalidad materna en el servicio de obstetricia del Hospital Central de Valencia. Pp. 187-195.
Roust, C. [Fatal maternal risks in obstetrics.] Los riesgos letales maternos en obstetricia. Pp. 197-214.°

2206 Schmid, Calvin F., and Van Arsdol, Maurice D., Jr.
Completed and attempted suicides: a comparative analysis. American Sociological Review 20(3):273-283. March, 1955.
Report of a study of all completed and attempted suicides in Seattle, 1948-1952, with respect to age, sex, race, marital status, occupation, means and methods, temporal and spatial distribution.

2207 Seidler, M.
[Maternal mortality in labor and perinatal fetal and infantile mortality.] Śmiertelność poporodowa kobiet oraz okołoporodowa płodów i noworodków. Ginekologia Polska (Łodź) 26(3):323-329. July-Sept., 1955.°

2208 Shackelford, J. W.
Report on maternal mortality. Journal of the Oklahoma State Medical Association 48(9):257-264. Aug., 1955.°

2209 Sordo Noriega, A.
[Maternal mortality in the Republic of Mexico.] Mortalidad materna en la Republica Mexicana. Gaceta Médica de México (México, D. F.) 85(1):57-65. Jan.-Feb., 1955.°

2210 Westphal, Karl H.
[Adjusted frequencies of cancer mortality.] Bereinigte Häufigkeiten von Krebs als Todesursache. Beiträge zur Statistik in Einzeldarstellungen, Nr. 13. Statistisches Amt Düsseldorf, Sept., 1954. 20 pp., with tables.°

[See also Titles 2013, 2064, 2152, 2174, 2187, 2230, 2532]

F. FERTILITY AND NATURAL INCREASE

General Fertility

2211 Carvalho, Alceu de.
[Male fertility in São Paulo according to age and occupation, in the capital and in the interior of the state.] A fecundidade masculina em São Paulo segundo a idade e o ramo de atividade, na Capital e no interior do Estado. Revista Brasileira de Estatística (Rio de Janeiro) 16(63):275-290. July-Sept., 1955.
Analysis of 1950 census data. Tables summarize the proportions of fertile males and cumulative reproduction and fertility rates, by industry branch and 10-year age groups, ages 20-79.

2212 Das, S. R.
A mathematical analysis of the phenomena of human twins and higher plural births. [In 2 parts.] I: Twins. II: Triplets and the application of the analysis in the interpretation of the twin and the triplet data. Metron (Rome) 17(1-2):65-88; (3-4):67-91. Dec., 1954; April, 1955.
Summary of the present state of knowledge of occurrence. Derivation of mathematical formulas for probable frequencies of occurrence in a population and for sex ratios of monozygotic and dizygotic twins and of monozygotic, dizygotic, and trizygotic triplets. Suggested modification of theory. Practical computation illustrated.

2213 Freudenberg, Karl.
[Methods and results of fertility statistics.] Methodik und Ergebnisse der Fruchtbarkeitsstatistik. Schmollers Jahrbuch (Berlin) 75(6):43-65. 1955.
Analysis and discussion of West German data, 1949-1954, used for the official projections (see Title 2144, this issue). Tables show relative position of each governmental district (Regierungbezirk) compared with the national averages in natality, total fertility, and standardized fertility rates. Similar regional tabulation of four socio-economic variables (proportions adhering to Roman Catholic Church; dependent on agriculture, forestry, hunting and fishing; dependent on mining, earth and stone, and power industries; living in cities of 100,000 or more). Computation of cross correlations and estimates of the relative influence of the four factors.

2214 Germani, Gino.
[New trends in the natality of the countries of Western civilization: the case of Argentina.] Nuevas tendencias en la natalidad de los países de cultura occidental: el caso argentino. Revista Mexicana de Sociología (México, D. F.) 17(1):65-83. Jan.-April, 1955.°

2215 Goldstein, Sidney.
Changing patterns of fertility in Norristown, Pennsylvania, 1920-1950. Social Forces 34(1):72-76. Oct., 1955.

2216 Groenman, Sjoerd.
Women's opinion about size of family in the Netherlands. Attempts to measure desired size of family. Eugenics Quarterly 2(4):224-228. Dec., 1955.
Description of research project in 1950 and 1951 by the Institute of Social Research in the Netherlands. Replies to questionnaire classified by religious groups, area of residence, and sibship. See also 18(2): Title 855.

2217 Jeffreys, M. D. W.
Twin births among Africans. South African Journal of Science (Johannesburg) 50 (4):89-93. Nov., 1953.°

2218 Leslie, Gerald R., et al.
Studies in child spacing: IV. The time-interval separating all children in completed families of Purdue University graduates. Social Forces 34(1):77-82. Oct., 1955.
Review of the literature and report on findings obtained by questionnaires from graduates of the classes of 1927 and 1928. For citations to preceding parts see 19(2): Title 798; 19(4):Title 1939; 20(1):Title 255.

2219 Masse, L.
[A contribution to the study of marriage and fertility in the agglomeration of Dakar.] Contribution à l'étude de la nuptialité et de la fertilité dans l'agglomération dakaroise. Etudes Sénégalaises (Dakar), No. 5, 1954. Pp. 41-67.°

2220 Metropolitan Life Insurance Company.
Family building in the early years of marriage. Statistical Bulletin 36(11):4,5. Nov., 1955.

2221 Soop, Erik.
[Births by parity.] Bördnummerstatistik. Statistisk Tidskrift (Stockholm), No. 11, 1955. Pp. 640-643.
Discussion and presentation of Swedish data of 1952 and 1953, by marital status and age. Comparison of data from hospitals and maternity homes, the [national] Medical Board, and the Central Bureau of Statistics.

2222 Stycos, J. Mayone.
Family and fertility in Puerto Rico: a study of the lower income group. First volume of the final report of the Family Life Research Project undertaken by the Social Science Research Center, College of Social Sciences, University of Puerto Rico. New York, Columbia University Press, 1955. xv, 332 pp.°

2223 Vajani, L.
[A survey on the distribution of births among the different days of the week.] Indagine sulla distribuzione dei nati nei diversi giorni della settimana. Giornale degli Economisti e Annali di Economia (Padua) N.S. 14(7-8):326-348. July-Aug., 1955.

2224 Westoff, Charles F., et al.
A new study of American fertility. Social and psychological factors. Eugenics Quarterly 2(4):229-233. Dec., 1955.
The study design. The fertility variable and the logic of analysis. The independent variables. The pretesting program. See also 22:Title 1160.

[See also Titles 2019, 2030, 2066, 2074, 2075, 2193, 2268, 2401, 2414, 2447, 2457, 2490]

Differential Fertility

2225 Burnight, R. G., et al.
Rural-urban fertility in Mexico. American Sociological Review 21(1):3-7. Feb., 1956.
Analysis of data from the 1950 Mexican census of population. Ratios of children 0-4 years old per 1,000 women 15-49 for rural and urban municipios. Analysis of variance in fertility ratios of urban municipios in states of Mexico by degree of urban dominance and urban size. Partial correlation coefficients between total state fertility ratio and age distribution of women 15-49, and aspects of urbanization of Mexico, 1950.

2226 McGinnis, Robert.
Similarity in background characteristics and differential fertility. Social Forces 34 (1):67-72. Oct., 1955.
An experimental analysis of differential fertility, based on consideration of the socio-economic characteristics of couples as units instead of as individuals, illustrated by Puerto Rican data of 1948.

2227 Mayer, Albert, and Klapprodt, Carol.
Fertility differentials in Detroit: 1920-1950. Population Studies 9(2):148-158. Nov., 1955.
Analysis of data from birth registration records and decennial censuses. Presentation and discussion of fertility rates and nuptial fertility rates for whites and nonwhites by age groups and economic levels. Interpretative remarks on differential fertility and values.

[See also Titles 2211, 2213, 2224, 2249]

Sterility and Other Pathology

2228 American Medical Association.
Premature infants. Journal of the... 159 (2):116. Sept. 10, 1955.
Editorial discussion of definitions and summary of present knowledge and policy.

2229 Brown, Willis E.
Current Reviews: Sterility investigation. Fertility and Sterility 6(6):557-564. Nov.-Dec., 1955.
A summary of current research.

2230 Fontanilla, J., and Anderson, G. W.
Further studies on the racial incidence and mortality of ectopic pregnancy. American Journal of Obstetrics and Gynecology 70(2):312-319. Aug., 1955.°

2231 Heiman, M.
Psychoanalytic evaluation of the problem of one-child sterility. Fertility and Sterility 6(5):405-414. Sept.-Oct., 1955.

2232 Jeans, P. C., et al.
Incidence of prematurity in relation to maternal nutrition. Journal of American Dietetic Association 31:576-581. June, 1955.
Report on a study of 404 pregnant women in a predominantly rural midwestern state.

2233 MacLeod, J.
The present status of human male infer-

tility. American Journal of Obstetrics and Gynecology 69:1256-1267. June, 1955.

Definition of male infertility. Summary of current interpretations of the physical factors.

2234 Simon, L.

The incidence of caesarean section and the results of all deliveries in Sweden in the years 1949-1951. Acta Obstetricia et Gynecologica Scandinavica (Stockholm) 34 (2):151-160. 1955.°

2235 Tyler, E. T., and Singher, H. O.

Male infertility. Status of treatment, prevention, and current research. Journal of the American Medical Association 160(2): 91-97. Jan. 14, 1956.

[See also Titles 2169, 2490]

Fertility Controls

2236 Gates, E. M.

Family planning for a more healthy population. Cyprus Medical Journal (Nicosia) 7(9-10):153-154; Greek translation, pp. 155-157. Feb.-March, 1955.°

2237 Indian Conference of Social Work.

Family planning and social welfare. Report of a sub-committee of the Indian Conference of Social Work submitted to the Lucknow session, December, 1954. Bombay, [1954]. 28 pp.

Distributed by the Family Planning Association of India, Industrial Assurance Building, Bombay 1.

2238 Japanese Birth-Control Institute.

Fifth International Conference on Planned Parenthood. The Planned Parenthood Quarterly (Tokyo) 6(2-3):1-60. April-Sept., 1955. In Japanese with English titles.

Contents include:

Family planning in Singapore City Council clinics. By M. Lim.

Legal aspects of abortion in Japan. By F. Y. Amano.

Public opinion on birth control. By the Mainichi.

Reports on sterilization and abortion (1954). By the Welfare Ministry.

Eugenic Protection Law. By the Welfare Ministry.

Press review of population problem in Japan (Jan.-June, 1955).

On the Fifth International Conference on Planned Parenthood. By K. W. Amano.

2239 Koya, Yoshio, and Muramatsu, Minoru.

A survey of health and demographic aspects of induced abortion in Japan. Special Report No. 4. Pregnancy following the induced abortion. Bulletin of the Institute of Public Health (Tokyo) 4(3):1-7. June, 1955.°

2240 Lal, S.

Need for family planning. Our Punjab (Simla, East Punjab) 5(5):169-170, 184. May, 1952.

"Demographic trends together with actual family planning questions are discussed." [S.S.B.I. 1]

2241 Larsen, Nils P.

Report of a birth regulating program. Fertility and Sterility 6(6):543-549. Nov.-Dec., 1955.

Discussion of methods and organization of a program initiated for plantations in Hawaii.

2242 Mainichi Shimbun. The Population Problems Research Council.

Third public opinion survey on birth control in Japan. By Tatsuo Honda. Population Problems Series, No. 13. Tokyo, The Mainichi Newspapers, 1955. [iv], 39 pp.

Report on the results of the survey taken in May, 1955, by the Population Problems Research Council of the Mainichi Newspapers and the Public Opinion Research Division of the same newspapers. Comparison with results of similar surveys in May 1950 and 1952. Chapters include: Trend of fundamental attitude toward life; Desire for small families and the present situation concerning diffusion of the knowledge of contraception; Actual studies of the diffusion of contraceptive experiences.

2243 Medical Digest.

Family planning and social hygiene, Parts I and II. Medical Digest (Bombay) 23(10):753-876; (11):877-986. Oct. and Nov., 1955.

Two special issues containing general articles, digested reports, and other notes, reviews, and editorials on medical and social aspects of family planning in India.

2244 Prasada, K.

Family planning work in Lucknow. Indian Medical Gazette (Calcutta) 89(2):77-84. 1954.°

2245 Sutter, Jean.

[Statistical study of induced abortion.] Etude statistique de l'avortement provoqué. Problèmes (Brussels), March-April, 1954. Pp. 61-63.°

2246 Vehaskari, A.

[Abortion law applied in practice.] Abort-

tilain käytäntöön soveltamisesta. Suomen Lääkarilehti (Helsinki) 10(13):1037-1064. July 1, 1955.°

[See also Titles 2007, 2055, 2260, 2366, 2417, 2423, 2425, 2426, 2490]

Natural Increase

2247 Illinois. State Department of Public Health. Bureau of Statistics.
Births are up and deaths are down in 1954. Health Statistics Bulletin, 1954 Series. Springfield, Ill., Nov. 15, 1955. 40 pp.
Summary of data on natural increase. Tabulated data include deaths from selected causes, by age groups, for economic areas, metropolitan and other.

2248 Metropolitan Life Insurance Company.
Large population increase in 1955. Statistical Bulletin 36(12):1-3. Dec., 1955.

2249 W., C. E.
[Statistical analysis of Walloon demography.] Analyse statistique de la démographie wallonne. Revue du Conseil Economique Wallon (Liége), No. 12, Jan.-Feb., 1955. Pp. 26-52.
Presentation of data on natural increase and migration balance by year, 1841-1952, for Wallonia, Flanders, Brussels, and Belgium. Discussion of internal migration and regional differences in fertility. Regional prospects. Significance of prospective decline in Wallonia.

[See also Titles 2155, 2534]

G. MARRIAGE, DIVORCE, & THE FAMILY

Marriage and Divorce

2250 Foreign Languages Press.
The marriage law of the People's Republic of China with explanatory materials. Peking, Foreign Languages Press, 1953. [viii], 44 pp.
Contents: The marriage law of the People's Republic of China: a much needed marriage law, by Chang Chih-jang; On the marriage law of the People's Republic of China, by Teng Ying-chao; Breaking the yoke of the feudal marriage system, by Teng Ying-chao.
Provisions include the abolition of bigamy, concubinage, child betrothal, interference with remarriage of widows, and the exaction of money or gifts in connection with marriages. Establishment of equality of partners and rights to divorce.

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2345 Imhoff, E.
[How high is the labor reserve at present in West Germany?] Wie hoch sind die Arbeitskraftreserven gegenwärtig in Westdeutschland? Mitteilungen des Rheinisch-Westfälischen Instituts für Wirtschafts-Forschung (Essen), June, 1955. Pp. 130-139.
"Advances in employment since 1952 and trends in permanent and seasonal unemployment." [B.A.D. 10(8)]

2346 Leser, C. E. V.
The supply of women for gainful work in Britain. Population Studies 9(2):142-147. Nov., 1955.
Analysis of census data, 1911-1951, on the number and proportion of gainfully occupied women as a per cent of all females. Estimates of the effects, respectively, of demographic changes, changes in marriage habits, changes in working habits. Future prospects.

2347 Maier, W.
[The probable development of the economically active population of Bavaria.] Die voraussichtliche Entwicklung der erwerbsfähigen Bevölkerung Bayerns. Bayern in Zahlen (Munich) 8(6):166. June, 1954.°

2348 Price, Paul H., and Hitt, Homer L.
The aged in Louisiana's agriculture. Louisiana State University and Agricultural and Mechanical College Bulletin, No. 495. University, La., Agricultural Experiment Station, June, 1955. 68 pp.
Numbers and distribution; demographic, economic, and social characteristics; and trends. "The objectives of this study are to analyze the status and characteristics of the aged persons in Louisiana's rural-farm population and to compare their situation to that of the aged in the urban and rural-nonfarm areas of the state."

2349 Rajaković, Z.
[Economic structure of the population in Croatia.] Ekonomski Pregled (Zagreb) 5 (12):862-871. 1954. In Serbo-Croatian, with English summary.°

2350 Rassegna di Statistiche del Lavoro.
[Preliminary returns of the labor-force survey of May 8, 1955.] Primi risultati della rilevazione della forze di lavoro all'8 maggio 1955. Rassegna di Statistiche del Lavoro (Rome) 7(4):361-363. July-Aug., 1955.

2351 Tarver, James D.
A study of rural manpower in southeastern Oklahoma. Oklahoma Agricultural and Mechanical College Experiment Station Technical Bulletin, No. T-56. Prepared in cooperation with the U. S. Agricultural Marketing Service. Stillwater, 1955. 27 pp.
Sections include a survey of population in the area studied, data on labor output of rural family members in 1952, underemployment of population (including among effects the farm rural exodus), availability of workers for employment.

[See also Titles 2184, 2315-2317, 2323, 2383, 2384, 2388, 2468, 2550]

Social Characteristics

2352 Brazil. Instituto Brasileiro de Geografia e Estatística.
[Regional study of literacy in Brazil based on the 1950 census.] Estudo regional da alfabetização no Brasil baseado no censo de 1950. Boletim Estatístico 13(51): 1-9. July-Sept., 1955.
Paper presented at the 29th session of the International Institute of Statistics, Rio de Janeiro, 1955, prepared under the direction of Ernani Thimoteo de Barros. Tables of data by sex for the Federal units.

2353 Bureau Universitaire de Statistique et de Documentation Scolaires et Professionelles.
[The age structure of the academic population.] Structure par âges de la population universitaire. Avenirs (Paris), April, 1955. Pp. 17-19.
Statistics, charts.

2354 Fernau, F. W.
Moslems on the march. People and pol-

itics in the world of Islam. Translated from the German by E. W. Dickes. London, Robert Hale, 1955. xi, 312 pp.

"This book is a successful interpretation of the present Islamic movement in the Near and Middle East and of its relevant past." [International Affairs 32(1)]

2355 Girard, Alain, and Bastide, Henri.

[School guidance and selection: a survey of children leaving the primary school.] Orientation et sélection scholaires: une enquête sur les enfants à la sortie de l'école primaire. Population (Paris) 10(4):605-626. Oct.-Dec., 1955.

Continuation of a study of a 10 per cent sample of those leaving primary school in the Department of the Seine in June, 1952, analyzing their family composition, present occupation, reason for going to work, educational level of other members of the family, parents' occupation, housing conditions, teachers' evaluation. Presentation of findings and considerations of policy. For citations to earlier studies, see 20(3):Title 1533 and 21:Title 3230.

2356 Houtart, Fr.

A sociological study of the evolution of the American Catholics. Social Compass (The Hague) 2(5/6):189-216. [1955]

A geographical consideration of the distribution of Catholics in the United States. A study of Catholic immigrants (history, social organization, the national parish). Trends of the Catholic population, particularly in the evolution of cities. Implications for church policy and action.

2357 Sariola, Sakari.

Social class and social mobility in a Costa Rican town. Inter-American Institute of Agricultural Sciences, Miscellaneous Publication No. 5. Turrialba, Costa Rica, Scientific Communications Service of the Inter-American Institute of Agricultural Sciences, 1954. 136 pp.°

2358 U. S. Library of Congress. Legislative Reference Service. Foreign Affairs Division.

Populations and illiteracy rates of United Nations members. By A. V. B. Pratt. Washington, 1954. [10] pp.°

[See also Titles 2406, 2468]

Ethnic Characteristics

2359 Coughlin, R. J.

The Chinese in Bangkok: a commercial-oriented minority. American Sociological Review 20(3):311-316. June, 1955.

2360 Dotson, Floyd.

[Decline in the Mexican population of the United States according to the 1950 census.] Disminución de la población mexicana en los Estados Unidos de acuerdo con el censo de 1950. Revista Mexicana de Sociología (México, D. F.) 17(1):151-169. Jan.-April, 1955.

2361 Heike, O.

[The Germans of Poland, 1918-1939.] Das Deutschtum in Polen 1918-1939. 1955. 296 pp., with map.°

2362 Hinton, Harold C.

The national minorities in China. Far Eastern Economic Review (Hongkong) 19: 321-325. Sept. 15, 1955.

Data on numbers and distribution in 1953-1954 and on their status since 1949.

2363 Kraus, Bertram S., and Jones, Bonnie M.

Indian health in Arizona. A study of health conditions among the central and southern Arizona Indians. Second annual report of the Bureau of Ethnic Research, Department of Anthropology, University of Arizona. Tucson, 1954. 165 pp., processed.

Results of a field study of those Indians living under the jurisdiction of the Phoenix Area Office, Bureau of Indian Affairs. Data include population estimates, age-group composition, birth rates, hospital births, mortality and leading causes of death, growth and physical constitution of Indian children. Maps and tables.

2364 Pant, Y. P.

Population of Nepal. The Eastern Economist (New Delhi) 25(16):596-598. Oct. 14, 1955.

Discussion of the history and present conditions and prospects of the main racial groups.

[See also Titles 2035, 2036, 2079, 2111, 2112, 2286, 2336, 2337, 2384, 2489]

K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

Demographic Factors and Resources

2365 Hoselitz, Bert F.

Patterns of economic growth. Canadian Journal of Economics and Political Science

21(4):416-431. Nov., 1955.

The problem of the ratio between population and the natural resources available to that population in the initial phase of the development process is related to the construction of eight developmental types. Suggested applications in the Americas.

2366 International Planned Parenthood Federation.

Population and world resources in relation to the family. Report of the proceedings of the Fourth International Conference on Planned Parenthood, August 17-22, 1953, Stockholm, n.d. xxiii, 199 pp.°

2367 Lorenzo, A. M.

Natural resources and human adaptation. Lucknow, Universal Publishers, Ltd., 1947. vi, 100 pp.

2368 Stamp, L. Dudley.

The background of world resources. The South African Bankers' Journal (Cape Town) 52(8):284-291. Nov., 1955.

Discusses the food and population problem from the supply side and emphasizes the need for conservation.

2369 Tizzano, Antonio.

[Population and the food problem.] Popolazione e problema alimentare. Difesa Sociale (Rome), Jan.-March, 1955. Pp. 35-49.

"The great danger of the 'demographic explosion.' Review of the Malthusian theories. How will the food production increase? Development of cultivated land. Increase in productivity. Future prospects." [B.A.D. 10(7)]

[See also Titles 2025, 2083, 2374]

Economic Growth

2370 Biswas, A. K., and Mueller, M. G.

Population growth and economic development of India. All India Congress Committee [A.I.C.C.] Economic Review (New Delhi) 7(14):17-20. Nov. 15, 1955.

2371 Hanrath, Joh. J.

[Mexico and the problems of economic underdevelopment.] Mexico en de problematiek der economische onderontwikkeldheid. Tijdschrift voor Economische en Sociale Geografie (The Hague) 46(11):229-242. Nov., 1955. With English summary.

Among twenty indications of economic underdevelopment are included high birth rates and high rates of natural increase, and low life expectancy. Application to Mexico.

2372 Kuznets, Simon.

[The meaning and criteria of economic development. I. Population, income, and capital.] Bedeutung und Kriterien des wirtschaftlichen Fortschritts. I. Bevölkerung, Einkommen und Kapital. Zeitschrift für Nationalökonomie (Vienna) 15 (1-2):12-20. 1955.

Paper presented at the 1953 Round Table Conference of the International Economic Association, translated into German by A. Panzera.

2373 Kuznets, Simon, et al., Editors.

Economic growth: Brazil, India, Japan. Durham, Duke University Press, 1955. xiv, 614 pp.

Eighteen papers resulting from a research conference planned by the Committee on Economic Growth, Social Science Research Council. Part I. Agricultural, industrial, and related economic trends. Part II. Demographic factors and economic growth [see Titles 2058, 2073, 2076, and 2382, this issue for individual citations]. Part III. Social structure, the state, and economic growth.

2374 Lewis, W. Arthur.

The theory of economic growth. London, Allen and Unwin, 1955. 454 pp.

A broad survey of the economic and cultural factors in economic development. The chapter, Population and resources, includes discussion of population growth, size, and type; occupations; and migration.

2375 Mehta, Fredie A.

Economic implications of demographic growth in India. Economia Internazionale (Genoa) 8(4):810-827. Nov., 1955.

Analysis of probable development in the next three decades, covering demographic characteristics, rates of capital formation, rates of growth of food supplies, rates of growth of population and available employment opportunities, and their interrelations. Considerations of policy on fertility controls.

2376 Miernyk, William H.

Labor mobility and regional growth. Economic Geography 31(4):321-330. Oct., 1955.

Occupational mobility as evidenced in the displaced population of six New England textile mills that were closed down.

[See also Titles 2021, 2047, 2056, 2058, 2059, 2073, 2128, 2365, 2482]

Labor Force Participation

2377 Derwa, Léon.
[Note on unemployment and population.] Note sur le chômage et la population. Revue du Conseil Economique Wallon (Liége), No. 15, July-Aug., 1955. Pp. 21-28.
Discusses the nature of the optimum population and full employment with reference to Wallonia.

2378 Dornbusch, Sanford M.
Correlations between income and labor-force participation by race. American Journal of Sociology 61(4):340-344. Jan., 1956.
Analysis of 1940 census data on labor-force participation for whites and nonwhites by age and sex in 28 cities having a sizeable nonwhite population. Description of methods and findings and suggested revision of wage theory on negative correlation of income and labor-force participation rates.

2379 Dovring, F.
[The size of undertakings and the labor employed.] Betriebsgrösse und Arbeitsbesatz. Agrarwirtschaft (Göttingen), April, 1955. Pp. 100-104.
"A comparison of the labor force theoretically necessary and that actually employed for each size of undertaking in Denmark and in two German Länder makes possible an attempt to determine the optimum dimensions of the enterprise." [B.A.D. 10(7)]

2380 First National City Bank of New York.
Sixty-five million jobs. Monthly Letter, Sept., 1955. Pp. 104-107.
"Employment and unemployment trends since 1948. Implications for labor and for the economy." [P.A.I.S. 42(9)]

2381 Mansfield, Edwin.
Community size, region, labor force, and income, 1950. The Review of Economics and Statistics 37(4):418-423. Nov., 1955.
"This paper describes the size-of-community and regional variation in the number in the labor force per consumer unit in 1950, and an attempt is made to determine whether this variation operated in general to increase or to reduce income differences. In addition, limited attention is accorded some of the factors related to the observed differences among community-size and regional categories in the number in the labor force per consumer unit." Data from the U. S. 1950 census.

2382 Moore, Wilbert E.
Population and labor force in relation to economic growth. Pp. 231-240 in: Kuznets, Simon, et al., Editors. Economic growth: Brazil, India, Japan. Durham, Duke University Press, 1955. xiv, 614 pp.
Discussion of problems of comparison and generalization and of trends in total population.

2383 Raushenbush, Carl, and Berman, Abraham J.
Occupational patterns of older workers, 1940 and 1950. Pp. 55-79 in: New York State Joint Legislative Committee on Problems of the Aging. Legislative Document (1955) No. 32. Albany, 1955. 164 pp.
Analysis of U.S. census data of 1940 and 1950 as revealing employment trends of men and women, 45-64 and 65 and over, in various occupations. Aspects studied: rising proportion of older workers; participation rates; rates of specific occupations; older workers' contribution to employment rise. Tables for males and females, 45 years and over.
A successor study to Pearce, C. A. Employment status of older workers, in: New York Joint Legislative Committee on Problems of Aging. Never too old. Albany, 1949. Reprinted as Special Welfare News Memo 18, Division of Research and Statistics, New York State Department of Labor.

2384 Salz, Beate R.
The human element in industrialization. A hypothetical case study of Ecuadorean Indians. American Anthropologist, Vol. 57, No. 6, Part 2. Memoir No. 85. 1955. x, 268 pp.
Published jointly with the Research Center in Economic Development and Cultural Change, University of Chicago, appearing as Vol. IV, No. 1, Part 2 (Oct., 1955) of Economic Development and Cultural Change.
Part I, On resources and the quantitative labor potential, contains chapter, The quantity of a potential labor supply for industry: an estimate [which discusses also ethnic composition, the present labor force, and land tenure in the highlands]. Bibliography and maps.

2385 Zonneveld, R. J. van.
[Observations on the problem of old age, and particularly on elderly workers.] Enkele beschouwingen over het ouderdomsvraagstuk en in het bijzonder over de bejaarde werkers. Mens en Onderneming (Harlem) 7(3):182-197. 1953.
"Observations on the growing proportion of the elderly in the population of Western countries. Medical, psychological, politi-

cal, economic, social aspects of the problem." [B.A.P. 9(1)]

[See also Titles 2011, 2076, 2184, 2316, 2340, 2342-2345, 2351]

Occupation and Industry

2386 Adachi, Ikutsune.
Analysis of overpopulation in farming community in Japan. A case of Ehime Prefecture. Memoirs of the Research Institute for the Integrated Study of Shikoku Province, Ehime University, No. 3. Matsuyama, 1955. vi, 34 pp. In English.
Report of findings in a field survey of 240 villages (146,000 farms) in five agricultural regions in 1954, to ascertain the kinds of underemployment and unemployment in agriculture. Data also on household composition and age structure.

2387 Blumen, Isadore, et al.
The industrial mobility of labor as a probability process. Cornell Studies in Industrial and Labor Relations, Vol. VI. Ithaca, N.Y., Cornell University, 1955. xii, 164 pp.
"The purpose of this study is to explore the possibility of finding a probability model that will describe the flow of workers through the industrial structure of the United States." Data used are derived from the Continuous Work History Sample (C.W.H.S.) of the Bureau of Old Age and Survivors Insurance. A simple Markov chain model is constructed to represent industrial mobility, and then modifications are introduced based on an assumption of classes of workers differing in their continuity of employment.

2388 Ducoff, Louis J.
Trends and characteristics of the farm population in low-income areas. Washington, D.C., Agricultural Marketing Service, 1955. 9 pp., processed.
Topics discussed with reference to low-income farming areas include population trends, composition of farm population, levels of living of farm operator families, characteristics of their farms, and resumé of human resources.

[See also Titles 2021, 2074, 2211, 2213, 2307, 2342, 2383]

Economic Dependency

2389 Berggren, Ali.
[Advancing age and disease.] Aldrande och sjukdom - en orientering. Sociala Meddelanden (Stockholm), No. 10, 1955. Pp. 561-571. With English and French summaries.
Discussion of the aging process and requirements for social care.

2390 Civic, Miriam.
Our aging population: trends and causes. The Conference Board Business Record 12(11):428-432. Nov., 1955.
Dependent vs. productive ages. Causes, especially increasing longevity. Discussion of recent U.S. Bureau of the Census projections.

2391 Deneffe, Peter.
[Expenses for children in workers' households.] Die Aufwendungen für Kinder in Arbeitnehmerhaushaltungen. Wirtschaft und Statistik (Stuttgart) 7(9):450-454. Sept., 1955.
Report of a survey of workers' families in 1950/51. Presentation and analysis of data on size of household, income, and age of children. Apportionment of expenditures per child according to size of household and the child's relation to other members.

2392 Deneffe, Peter.
[Welfare assistance in the German Federal Republic and West Berlin.] Die Sozialleistungen in der Bundesrepublik Deutschland und in West-Berlin. Wirtschaft und Statistik (Stuttgart) 6(12):553-564. Dec., 1954.
Summary and analysis of findings of a survey of personal income and social assistance received in September, 1953. Age profiles of the dependent population as compared with total population. Tabular analysis of types and incidence of dependency.

2393 Henripin, Jacques.
[Age composition and social security.] Composition par âge et sécurité social. L'Actualité Economique (Montreal) 31(1): 146-153. April-June, 1955.
"Consequences of the differences in the age composition of the population in the provinces of Ontario and Quebec, between French Canadians and English Canadians; importance of these data for the administration of the social security fund." [B.A.D. 10(8)]

2394 Sweden. Socialstyrelsen.
[The community and the families with children.] Samhället och barnfamiljerna. Sociala Meddelanden, No. 10, 1955. Pp. 588-601. With English and French summaries.
Comment on a report of the same title

by the Family Commission in 1954. Cost of living survey, with consumption-unit scale by age groups, correlated with number of children per family.

2395 Titmuss, R. M.
Pension systems and population change. Political Quarterly (London) 26(2):152-166. April-June, 1955.
"Some aspects of the old-age-insurance system in the United Kingdom, and particularly the problems raised by the Phillips Commission." [B.A.D. 10(6)]

2396 U.S. Congress. Joint Committee on Railroad Retirement Legislation.
Economic problems of an aging population. Retirement policies and the railroad retirement system, Part 2. Report of the Joint Committee on Railroad Retirement Legislation. Washington, D.C., Govt. Printing Office. 1953. xvii, 172 pp.

2397 Webber, Irving L., Editor.
Aging and retirement. Institute of Gerontology Series, Vol. 5. Gainesville, University of Florida Press, 1955. xiii, 142 pp.
Full-length articles and abstracts of papers presented at the joint conference of the 5th Annual Southern Conference on Gerontology and the 7th Annual Scientific Meeting of the Gerontological Society, Inc., at the University of Florida, December, 1954.

[See also Titles 2057, 2315, 2326, 2385]

Other Economic Variables

2398 New York State Commercial Review.
Market impact of population increase in New York State. New York State Commercial Review, Aug., 1955. Pp. 5-10.
"Variations in demand for goods and services as related to population changes." [P.A.I.S. 42(9)]

2399 Norway. Statistisk Sentralbyrå.
[The relation between consumers' expenditure, family size, and family income in worker households, 1951-52.] Sammenhengen mellom forbruksutgifter, familiestørrelse og familieinntekt i arbeiderhusholdninger 1951-52. Statistiske Meldinger 73(2):39-55. 1955. With English summary.
"An investigation based on a budget study of Norwegian worker households October 1951-September 1952. A regression analysis has been carried out.... The method used is one of linear regression, with expenditures on a number of selected items... as dependent variables, and with family size...and family income as independent variables.... A detailed description of the budget material can be found in the publication: Husholdningsregnskaper oktober 1951 - september 1952. Official Statistics of Norway, XI, 128, Oslo, 1953."

2400 Tizzano, Antonio.
[The distribution of doctors in the world.] La distribuzione dei medici nel mondo. Problemi del Servizio Sociale (Rome), March-April, 1955. Pp. 211-218.
The number of doctors, by countries, in relation to population size.

[See also Titles 2019, 2068, 2098, 2191, 2294, 2339, 2381, 2418]

L. OTHER INTERRELATIONS

Demographic and Social Factors

2401 Himelhoch, Jerome, and Fava, Sylvia F., Editors.
Sexual behavior in American society. An appraisal of the first two Kinsey reports. New York, Norton, 1955. xvii, 446 pp.
A collection of critiques by various kinds of specialists, edited for the Society for the Study of Social Problems. Sections include: Theories and methods in the study of human sexuality; Kinsey's research design and statistical methods; Sexual patterns and social institutions.

2402 Keller, P.
[Principles in the legal use of the concept of aging. Biodynamic concepts, their physiological confirmation and their usefulness in expert testimony.] Grundlagen für die gutachtliche Verwendung der Alternsbegriffe. Die biodynamischen Begriffe, ihre gewebliche Bestätigung und ihre gutachtliche Verwendbarkeit. Ärztliche Wochenschrift (Berlin) 10(19):437-445. May 13, 1955.°

2403 Lorenzo, A. M.
The drink problem in urban Bombay. An inquiry into social and economic aspects of drinking in urban centres of Bombay State. Bombay, Govt. Central Press, 1953. x, 138 pp.
Sample surveys of three urban centers in Bombay State (Sholapur, Surat, Hubli) in 1948, by the Department of Social Research, Tata Institute of Social Sciences. Correlations with social stratification, sex, age, income, occupation.

2404 Lorenzo, A. M., and Antony, A. E.
Living planes of drinkers' families in urban Bombay. Bombay, Bureau of Research and Publications, Tata Institute of Social Sciences, and Govt. Central Press, 1953. viii, 142 pp.

2405 Lundberg, George A.
Occupations and "class" alignments in the United States, 1870-1950. Social Forces 34(2):128-130. Dec., 1955.
A note on the need for research on the validity of currently accepted definitions and assumptions about class affiliation.

2406 Pfautz, Harold W.
The sociology of secularization: religious groups. American Journal of Sociology 61(2):121-128. Sept., 1955.
"As the basis for constructing types of religious social organization, five fairly distinct sociological frames of reference will be employed....[including] (1) the demographic.... Three demographic dimensions have been selected for consideration: size, composition, and rate of growth...." The particular case of Christian Science is discussed.

[See also Titles 2024, 2044, 2074, 2077, 2111, 2188, 2189, 2213, 2225, 2254, 2259, 2267, 2294, 2346]

Demographic and Political Factors

2407 Burnham, W. Dean.
Presidential ballots, 1836-1892. Baltimore, The Johns Hopkins Press, 1955. xx, 956 pp.
Tables include distribution of counties, 1836-1892, giving party strength and votes cast in each presidential election.

2408 Woytinsky, W. S., and Woytinsky, E. S.
World commerce and governments. Trends and outlook. New York, Twentieth Century Fund, 1955. lii, 908 pp.
The companion volume to World population and production (see 20(2):Title 582). Main divisions comprise: Trade; Transportation; Governments [includes chapters on nations and governments, elections and parliaments, and colonial empires, that present and discuss data on populations and areas, demographic characteristics of electorates, and manpower as a factor in political power].

[See also Titles 2049, 2522]

Demographic and Other Factors

2409 Muller, H. J.
Comments on the genetic effects of radiation on human populations. Journal of Heredity 46(5):199-200. Sept.-Oct., 1955.
Brief statement of principles governing the mutations in human genes following exposure to ionizing radiation. Concludes that unfavorable effects much outweigh the favorable.

2410 Sutter, Jean, and Tabah, Léon.
[Consanguineous marriages and their effects on the descendents.] Les mariages consanguins et leurs effets sur la descendance. Le Concours Médical (Paris), No. 6, Feb. 6, 1954. Pp. 569-574.°

2411 Trankell, Arne.
[On the possibilities of psychological genetics.] Något om möjligheterna till en psykologisk genetik. Nordisk Psykologi (Copenhagen), No. 6, 1954. Pp. 1-19.
The "population genetics" approach to heredity. "Studies on the inheritance of lefthandedness, schizophrenia, and dysexia. The recessive genes are present in different proportions in Sweden and U.S.A., making cross-cultural references desirable." [P.A. 29(1)]

[See also Titles 2031, 2277, 2334, 2452, 2479]

M. POLICIES

General Population Policy

2412 Barbados. Joint Committee to Examine the Question of Overpopulation and to Make Recommendations for Dealing with this Problem.
Report of the.... Barbados, 1954. 7 pp.°

2413 Bose, Ashish.
Malthus and the modern world. Business Bureau Publication 14. Allahabad, University of Allahabad, 1951. 24 pp.
A plea for a worldwide rational population policy.

2414 Conseil Economique Wallon.
[Materials for the development of a population policy.] Matériaux pour l'élaboration d'une politique démographique. Revue du... (Liége), No. 15, July-Aug., 1955. Pp. 1-20.
Review of French and Belgian policy and experience. Data on family size in Belgium.

2415 Conseil Economique Wallon.
[The press and the population problem.] La presse devant le problème démographique. Revue du...(Liége), No. 15, July-Aug., 1955. Pp. 29-32.
A summary of recent press discussions of the Walloon problems.

[See also Titles 2010, 2015, 2025, 2029, 2054, 2071, 2074, 2366, 2480]

Measures Affecting Fertility

2416 Amano, Fumiko Y.
Family planning movement in Japan. Reprint from: Contemporary Japan (Tokyo), Vol. 23, Nos. 10-12, 1955. 14 pp.
History of the birth control movement and of governmental policy before World War II, under the Occupation, and since 1952.

2417 Bouzat, P.
[The problem of abortion.] Le problème de l'avortement. Revue de Droit Pénal et de Criminologie (Brussels) 33(8):703-724. 1953.
"The repressive measures intended to lower the number of abortions and the preventive measures of an ethical, economic and social nature. In each of these directions, the measures already taken and those under consideration." [B.A.P. 9(1)]

2418 Ceccaldi, Dominique, and Blondeau, Jacques.
[Comparative development in family allowances, wages, and prices since 1946.] Evolution comparée des prestations familiales, des salaires et des prix depuis 1946. Population (Paris) 10(4):705-711. Oct.-Dec., 1955.
French data.

2419 Derobert, L.
[The medical possibilities in the suppression of criminal abortion.] Les possibilités médicales dans la répression de l'avortement criminel. Revue de Droit Pénal et de Criminologie (Brussels) 33(8): 725-737. 1953.
"The problem has differing aspects according to whether the physician is called upon in the capacity of medical practitioner or of expert. In the first case the difficulties are above all ethical, in the second technical." [B.A.P. 9(1)]

2420 Dursent, Michel.
[On family allowances in the French territories of black Africa.] A propos des prestations familiales dans les territoires français d'Afrique noire. La Semaine Médicale (Paris), No. 37, Oct. 30, 1954. Pp. 938-940.°

2421 Far Eastern Economic Review.
Urgency of birth control in Asia. Far Eastern Economic Review (Hongkong) 19 (17):518. Oct. 27, 1955.
Notes on problems of India, Japan, and the British colonies.

2422 Fischer, G.
[Preventive sterilization of women in France and abroad.] La stérilisation féminine préventive: en France et à l'étranger. Le Concours Médical (Paris) 77(28): 2831-2837. July 9, 1955.°

2423 Hoorebeke, F. van, and Dumon, F.
[The suppression of abortion.] La répression de l'avortement. Revue de Droit Pénal et de Criminologie (Brussels) 33(8): 738-783. 1953.
"Problems raised: limits of penal action, legal basis for suppression, dispositions made by divers legislation, professional secrets of physician and midwife, the problem of allowing certain abortions, the suppression of the attempt, preventive measures." [B.A.P. 9(1)]

2424 Kirby, E. Stuart.
The new approach to population policy in Asia. Far Eastern Economic Review (Hongkong) 19(15):449-452. Oct. 13, 1955.
Discussion of the need for controls to solve the problem of population growth and economic development in Asia. Notes on the recent change in the official Chinese position on contraception.

2425 Mainichi Shimbun. The Population Problems Research Council.
Some facts about family planning in Japan. By Minoru Muramatsu. Population Problems Series, No. 12. Tokyo, The Mainichi Newspapers, 1955. x, 120 pp.
Quotes and discusses the Eugenic Protection Law and presents statistical tables on fertility trends since its passage. Summarizes data on organizations concerned with policy on fertility. Literature on recent research and dissemination of findings.

2426 Moureau, P.
[Possibilities for the suppression of abortion.] Possibilités de répression de l'avortement. Revue de Droit Pénal et de Criminologie (Brussels) 33(8):784-794. 1953.
"The fight for the legislative program against abortion meets great difficulties: difficulties of a technical nature that impede the disclosure, difficulties of an ethi-

cal and legal nature that prevent the physician from helping the law." [B.A.P. 9(1)]

2427 Petersen, William.
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No. 164, for February 1956, appeared in March, 1956.

2517 U.S. Bureau of the Census.
Current Population Reports. Series P-60. Consumer income. Washington, 1948-.

Nos. 1-19. See 22:Title 1417.

No. 20. Family income in the United States: 1954 and 1953. Dec., 1955. 20 pp.

[See also Title 2503]

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Chile

2518 Chile. Servicio Nacional de Estadística y Censos.
[Some results of the twelfth census of population and the first of housing obtained by sampling.] Algunos resultados del XII censo de población y I de vivienda obtenidos por muestreo. [Santiago], May, 1955. 56 pp.

Methodological notes and summaries of the 1952 census, covering sex and age, geographical distribution, civil status, nationality, educational and economic characteristics, also housing, by provinces. Tables and graphics.

Colombia

2519 Colombia. Departamento Administrativo Nacional de Estadística.
[Population census of May 9, 1951.] Censo de población de 1951, mayo 9. Bogota, 1955-.

Departamento de Boyaca. Aug., 1955. 340 pp.

Departamento del Atlantico. Nov., 1955. 172 pp.

Departamento del Huila. 1955. 192 pp.

See also 21:Title 4524.

Paraguay

2520 Paraguay. Dirección General de Estadística y Censos.
[Statistical yearbook of the Republic of Paraguay, 1948-1953.] Anuário estadístico de la Republica de Paraguay, 1948-1953. Asunción, 1955. 120 pp.

Section on population and housing gives data on numbers, distribution, demographic, economic, and social characteristics, and vital statistics.

Venezuela

2521 Venezuela. Dirección General de Estadística.
[Eighth general census of population, November 26, 1950.] VIII censo general de población, 26 de noviembre de 1950. Caracas, 1953-.

[Report on localities, capitals and noncapitals with 1,000 or more inhabitants.] Relación de las localidades, capitales y no capitales, con 1,000 y mas habitantes. 10 pp. [P.F.C.]

[Preliminary results of the census of the indigenous population.] Resultados preliminares de la investigación censal de la población indígena. 1952. 71 pp.

See also 21:Title 1420.

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Germany

2522 Germany. Federal Republic. Statistisches Bundesamt.
[Election to the second German Bundestag on September 6, 1953. Part 2. Results of a sample survey on participation in the election and votes polled, according to the sex and age of the voters.] Die Wahl zum 2. Deutschen Bundestag am 6.9.1953. Heft 2. Ergebnisse einer Repräsentativstatistik über Wahlbeteiligung und Stimmabgabe nach Geschlecht und Alter der Wähler. Statistik der Bundesrepublik Deutschland, Band 100. Stuttgart-Cologne, W. Kohlhammer Verlag, 1955. 84 pp.

Ireland

2523 Ireland. Central Statistics Office.
Census of population of Ireland, 1951. Dublin, Stationery Office, 1952-.

Vols. I and II. See 21:Title 3404.

Vol. III. Part II. Industries and indus-

trial status. 1954. viii, 2, 214 pp., processed.

Italy

2524 Italy. Istituto Centrale di Statistica.
[Ninth general census of population, November 4, 1951.] IX censimento generale della popolazione 4 novembre 1951. Rome, 1952-.
Vol. I. [Summary data by communes.] Dati sommari per comune. Parts for the following provinces have been issued in addition to those already cited (see 22:Title 1428): Agrigento, Ascoli Piceno; Cagliari; Catania; Lucca; Roma; Sassari; Trento; Udine [Friuli]; Viterbo. 29-83 pp. each. [P.F.C.]

2525 Italy. Istituto Centrale di Statistica.
[Demographic statistical yearbook, 1953.] Annuario di statistiche demographiche, 1953. Rome, 1955. 400 pp.
Supersedes Cause di morte and Movemento della popolazione secondo gli atti dello stato civile.

[See also Title 2350]

Liechtenstein

2526 Liechtenstein. Amt für Statistik.
[Official statistics, 1954, Principality of Liechtenstein.] Zivilstandsstatistik 1954, Fürstentum Liechtenstein. Vaduz, April 15, 1955. 7 pp. and pp. 60-78.
Statistics on births, marriages, and deaths, by Gemeinde.

Netherlands

2527 Netherlands. Centraal Bureau voor de Statistiek.
[Vital statistics of the Netherlands, 1938-1954.] Statistiek van de loop der bevolking van Nederland, 1938-1954. Utrecht, 1955. [ii], 66 pp.

Saar

[See Title 2323]

Sweden

2528 Sweden. Statistiska Centralbyrån.
[Census of the population, December 31, 1950. VI. Total enumeration. Population by occupation. Households, persons born abroad and aliens.] Folkräkningen den 31 December 1950. VI. Totala Räkningen. Folkmängden efter yrke. Hushåll. Utrikes födda och utlänningar. Stockholm, 1955. XIV, 244 pp. With English titles.
For citations to Vols. I-III, see 21:Title 1319.

Switzerland

2529 Switzerland. Eidgenössisches Statistisches Amt.
[Federal census of population, December 1, 1950.] Volkszählung 1. Dezember 1950. Recensement fédéral de la population 1er décembre 1950. Statistische Quellenwerke der Schweiz. Bern, 1952-.
For volumes already cited, see 22:Title 1432.
Band 10. Kanton Luzern. 1955. 194 pp.
Band 26. [Swiss citizens by native cantons and municipalities.] Schweizerbürger nach Heimatkantonen und Gemeinden. 1955. 80 pp.

2530 Switzerland. Eidgenössisches Statistisches Amt. Bureau Fédéral de Statistique.
[Statistical yearbook of Switzerland, 1954.] Statistisches Jahrbuch der Schweiz 1954. Annuaire statistique de la Suisse 1954. Basel, 1955. X, 628 pp.
Contains for the first time definitive data from the 1950 census, covering the occupational structure, and new tables on the development of a number of occupations since 1930, married women (1941 and 1950) by number of children and duration of marriage. Also new life tables calculated from data of the years 1941/50 and 1948/53, and for the first time a table of deaths by age for the years preceding and immediately following the population censuses since 1888.

United Kingdom

2531 Great Britain. General Register Office, England and Wales.
Census, 1951. England and Wales. Index of place names. London, H. M. Stationery Office, 1955. In two volumes. Vol. 1, A-K. iv, 653, [i] pp. Vol. 2, L-Z. [iv], pp. 655-1378. Processed.

2532 Great Britain. General Register Office, England and Wales.
The Registrar-General's statistical review of England and Wales for the year 1952. Text volume. London, H. M. Stationery Of-

fice, 1955. xii, 256 pp.

Discussion and summary data, including final revision of the estimates of England and Wales, mid-1952. Also data on developments in statistical organizations and documentation.

2533 Northern Ireland. Ministry of Commerce.

Report on the census of production of Northern Ireland 1953. Belfast, H. M. Stationery Office, 1955. X, 132 pp.

Includes data on numbers employed by occupational status and distribution by age (under and over 18) and sex for each industrial group. Annual.

2534 Great Britain. General Registry Office of Births..., Scotland.

Hundredth annual report of the Registrar-General for Scotland, 1954. Edinburgh, H. M. Stationery Office, 1955. 484 pp., map.

"A record of the natural increase of population in each of the hundred years 1855-1954 is given as a historical record in Appendix IX...along with the figures of intercensal losses (mostly very heavy losses) by emigration. In the introduction...some comparisons are made...between the rate of births and deaths and other conditions affecting health, mortality, and the growth of population in 1855 and 1954."

Yugoslavia

2535 Yugoslavia. Savezni Zavod za Statistiku.

Final results of the population census of March 15, 1948. Volume V. Population by literacy. Konačni rezultati popisa stanovništva od 15 marta 1948 godine. Knjiga V. Stanovništvo po pismenosti. Résultats définitifs du recensement de la population du 15 mars 1948. Livre V. Population d'après l'aptitude à lire et à écrire. Belgrade. 1955. LXIV, 384 pp. With summaries and titles in English and French.

Vols. I-IV, VII-IX. See 21:Title 4545.

2536 Yugoslavia. Savezni Zavod za Statistiku i Evidenciju.

[Preliminary results of the population census of March 31, 1953. Sample tables. Vital, educational and social characteristics of the population.] Prethodni rezultati popisa stanovništva od 31 marta 1953 god. Obrada po uzorku. Vitalna, prosvetna i socijalna obeležja stanovništva. Statistički Bilten, Series B-1, No. 29. Fifth year. Belgrade, Oct., 1954. 66 pp., processed. Separate pamphlets give English and French translations of titles, notes, and column headings.

See also 22:Title 1436.

2537 Yugoslavia. Savezni Zavod za Statistiku i Evidenciju.

[Preliminary results of the population census of March 31, 1953, based on sample analysis. Households.] Prethodni rezultati popisa stanovništva od 31 marta 1953 god. Obrada po uzorku. Domaćinstva. Statistički Bilten, Series B-1, No. 30. Belgrade, Nov., 1954. 28 pp., processed. Separate pamphlets give English and French translations of titles, notes, and column headings.

2538 Yugoslavia. Savezni Zavod za Statistiku i Evidenciju.

Statistical yearbook of the Federal People's Republic of Yugoslavia, 1955. English text. Belgrade, Sept., 1955. 155 pp.

English translations of all titles and notes for the tabular sections in the Yearbook. These include: Total population (17 tables); Births, marriages and deaths (23 tables); Economic activity of the population (24 tables); and lists of cities and districts (including new districts and communes and new territorial division).

2539 Yugoslavia. Croatia. Zavod za Statistiku i Evidenciju.

[Statistical yearbook, 1953.] Statistički godisnjak 1953. Zagreb, 1954. 529 pp.°

2540 Yugoslavia. Macedonia. Zavod za Statistika i Evidencija.

[Statistical yearbook of Macedonia, 1954.] Statisticki godisnik za NRM, 1954. Skoplje, 1954. 358 pp.°

[See also Title 2322]

ASIA

Ceylon

2541 Ceylon. Office of the Registrar General.

Report of the Registrar General of Ceylon on vital statistics for 1954. Part I - Civil (H). Colombo, Govt. Press, 1955. 262 pp.

Textual summary, tables, graphs and diagrams. For the first time tables give: causes of death for the resident population in each urban area; monthly statistics of infant mortality by sex and age period for

the island as a whole and for each district; expansion of data on maternal death statistics for each urban area. Population estimates for districts, races, and urban areas are based on actual natural increases and migration factors.

India

2542 India. Registrar General.
Census of India, 1951. Vol. 1. India. New Delhi, Govt. of India Press, 1952-.
Part I-A. See 20(4):Title 1244.
Part I-B. See 21:Title 4550.
Part II-A. Demographic tables. 1955. [iv], 412 pp.
Part II-B. See 21:Title 4551.

2543 India. [State.... Superintendent of Census Operations.]
Census of India, 1951. [The final report.] Various places and dates of publication.
In addition to the volumes already cited (see 21:Title 4552) the following has been issued:
Vol. XVII. The Andaman and Nicobar Islands. Parts I and II. Report; Tables. 53 pp.°

2544 India. Registrar General.
Census of India. Paper No. 2 of 1955. Sample census of births and deaths - 1952-53, India. New Delhi, 1955. xii, 540 pp.
Contents: Report; State reports and tables; Subsidiary tables; Appendices.

Iran

2545 Iran. Ministry of Interior. Public Statistics Cooperative Organization.
Special census of Abadan Shahrestan. Statistical Bulletin, Series 3. Nos. 1-6. Tehran, March, 1955. 3-10 pp. each.° [P. F.C.]

Japan

2546 Japan. Bureau of Statistics.
[Preliminary report: population census 1955. Population by sex and number of households for prefectures, cities, towns and villages.] Tokyo, 1955. [iv], 78 pp. In Japanese.

2547 Japan. Bureau of Statistics.
Population census of 1950. Volume III. Results of the ten per cent sample tabulation. Tokyo, 1952. In Japanese, with English titles and introduction. In two parts.
Part 1. Sex, age, marital status, citizenship, education, households, housing, fertility. [iv], IV, 206 pp. and 8 pp. of diagrams and maps.
Part 2. Labor force status, occupation, industry, class of worker, hours worked. [iv], VI, 450 pp. and 8 pp. of diagrams and maps.
Vols. I, II, IV-VII. See 21:Title 4555.
Vol. VIII. See Title 2548, this issue.

2548 Japan. Bureau of Statistics.
[Population census of 1950. Volume VIII. Final report.] Tokyo, 1953. [iv], 688, 30 pp. In Japanese.
Chapters: General remarks on the 1950 census; Scope of the census; Explanation of terms and a comparison with previous censuses; Sampling methods and results; Summary of results [dealing with total population, sex, age, marital status, *fertility, education, place of birth, repatriates, place of legal origin, *labor force status, occupation, industry, *class of worker, *hours worked, *unemployment, households, *housing status of households, de jure and de facto population]. Asterisks indicate data based in whole or part on sample counts. Formal tables. Appendix.
See also Title 2547, this issue.

2549 Japan. Bureau of Statistics.
[Annual report on population migration obtained from resident registration, 1954.] Tokyo, 1955. [xi], 59 pp. In Japanese.
With maps and charts.

2550 Japan. Bureau of Statistics.
Report on the labor force survey, No. 2. Tokyo, 1955. 198 pp. In Japanese with English titles and notes on method.
Contents: Technical description of labor force survey [in Japanese only]; Outline of labor force survey; Summary of results [in Japanese only]; Statistical tables on monthly survey [Key statistics of labor force (21 tables giving data of 1948-1954 by year and month); Statistical tables on special survey (25 tables giving details of labor force in survey weeks, Oct. 1950 and Oct. 1953, with supplementary data from the 1949, 1951, 1952, and 1954 surveys)].

Jordan

2551 Jordan. Department of Statistics.
Statistical yearbook, 1954. Sec. A. Demographic statistics. 88 pp. Amman, [1955].

Philippines

2552 Philippines. Bureau of the Census and Statistics.
Statistical handbook of the Philippines, 1903-1953. Manila, 1954. 286 pp.

AFRICA

Angola

2553 Angola. Repartição Tecnica de Estatística Geral.
[Second general census of population, 1950.] II recenseamento geral do população, 1950. Luanda, Imprensa Nacional, 1953-.
Vols. I and II. See 22:Title 1450.
Vol. III. [Non-indigenous de facto population, according to level of education and civil status.] População civilizada presente, segundo o grau de instrução e o estado civil. 1955. 404 pp.

French Equatorial Africa

2554 French Equatorial Africa. Service de la Statistique Générale.
[The African population of the Chad territory on January 1, 1955.] Population africaine au 1er janvier 1955 du territoire du Tchad. [Table.] Bulletin d'Informations Economiques et Sociales de l'Afrique Equatoriale Française (Brazzaville) 9(88):2038. Oct., 1955.

Morocco (French)

2555 Morocco (French). Service Central de Statistique.
[General census of population in 1951-52.] Recensement général de la population en 1951-52. Rabat, 1953-.
Vol. II. [Non-Moroccan population.] Population non marocaine. 1954. LVI, 192 pp.
Vol. III. [Moroccan muslim population.] Population marocaine musulmane. 1955. L, 62 pp.
For citation to Vol. IV, see 21:Title 1341.

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STATISTICS

REPRODUCTION RATES AND INTRINSIC VITAL RATES /1

This table presents female reproduction rates and some intrinsic vital rates for dates since about 1930. Except for those marked by a small circle, the vital rates have been approximated for this table by a short method described in "The Calculation of Approximate Intrinsic Rates," Population Index 21(2):94-97, April, 1955. The reproduction rates used in the approximations are those shown in the table. The life tables used in the approximations are necessarily those on which the net reproduction rates were based and are identified by date in the table. The dates in the first column are those of the fertility data on which the reproduction rates were based. Most of the reproduction rates and life-table values were taken from publications or records of the United Nations Statistical Office; exceptions are noted.

Country	Date of Fertility Rates	Date of Life Table	Reproduction Rate		Intrinsic Rate (per 1,000 females)		
			Gross	Net	Natural Increase	Birth	Death
North America							
Canada /a b,2	1930-32	1930-32	1.63	1.39	8.8°	22.3°	13.5°
b,2	1940-42	1940-42	1.42	1.27	7.6	19.7	12.1
c	1945-49	—	1.63	—	—	—	—
	1950	—	1.67	—	—	—	—
	1951	—	1.67	—	—	—	—
	1952	—	1.76	—	—	—	—
	1953	—	1.82	—	—	—	—
	1954	—	1.87	—	—	—	—
Jamaica (ex.dep.)... c	1947-50	1945-47	1.88	1.48	14.3	28.6	14.3
	1951	1945-47	2.28	1.74	17.5	31.2	13.7
Trinidad and Tobago†	1931	1930-32	1.66	1.21	6.8	26.0	19.2
†	1946	1945-47	2.36	1.95	23.7	34.8	11.1
U.S., Continental /d /3	4/35-4/40	1930-39	1.10	0.98	-0.7°	15.5°	16.2°
	1940	1940	1.12	1.02	0.9°	15.7°	14.8°
	1941	1941	1.17	1.08	2.7°	16.6°	13.9°
	1942	1942	1.28	1.19	6.5°	18.6°	12.1°
	1943	1943	1.33	1.23	7.8°	19.5°	11.7°
	1944	1944	1.26	1.17	5.8°	18.1°	12.3°
	1945	1945	1.22	1.14	4.9°	17.4°	12.5°
	1946	1946	1.43	1.34	10.7	20.8	10.1
	1947	1947	1.59	1.51	14.9	23.6	8.7
	1948	1948	1.51	1.44	13.2	22.3	9.1
	1949	1949	1.52	1.44	13.2	22.2	9.0
	1950	1950	1.51	1.44	13.3	22.1	8.8
	1951	1951	1.59	1.52	15.3	23.5	8.2
	1952	1952	1.64	1.56	16.3	24.2	7.9
	1953	—	1.66	1.59	—	—	—
Whites.....	4/35-4/40	1930-39	1.06	0.96	-1.5°	14.7°	16.2°
	1940	1940	1.08	1.00	0.0°	14.9°	14.9°
	1941	1941	1.13	1.05	1.9°	15.8°	13.9°
	1942	1942	1.25	1.17	5.9°	18.0°	12.1°
	1943	1943	1.30	1.21	7.1°	18.8°	11.7°
	1944	1944	1.22	1.14	4.8°	17.3°	12.5°
	1945	1945	1.18	1.11	3.8°	16.5°	12.7°

Country	Date of Fertility Rates	Date of Life Table	Reproduction Rate		Intrinsic Rate (per 1,000 females)		
			Gross	Net	Natural Increase	Birth	Death
U. S., Whites (cont.)..	1946	1946	1.41	1.33	10.3	20.4	10.1
	1947	1947	1.57	1.49	14.4	23.1	8.7
	1948	1948	1.47	1.40	12.5	21.7	9.2
	1949	1949	1.46	1.40	12.1	21.2	9.1
	1950	1950	1.45	1.39	12.0	21.0	9.0
	1951	1951	1.53	1.47	14.1	22.5	8.4
	1952	1952	1.58	1.51	15.1	23.1	8.0
	1953	1953	1.60	1.54	15.9	23.7	7.8
Nonwhites	4/35-4/40	1930-39	1.41	1.14	4.4°	22.1°	17.7°
	1940	1940	1.41	1.20	7.3°	22.7°	15.4°
	1941	1941	1.47	1.25	8.9°	23.6°	14.7°
	1942	1942	1.51	1.32	10.8°	24.2°	13.4°
	1943	1943	1.58	1.38	12.8°	25.7°	12.9°
	1944	1944	1.58	1.38	12.7°	25.2°	12.5°
	1945	1945	1.56	1.38	12.5°	24.7°	12.2°
	1946	1946	1.60	1.44	13.3	24.8	11.5
	1947	1947	1.77	1.59	17.4	27.4	10.0
	1948	1948	1.85	1.68	19.4	28.7	9.3
	1949	1949	1.91	1.74	20.7	29.6	8.9
	1950	1950	1.94	1.78	21.3	29.8	8.5
	1951	1951	2.02	1.86	23.1	31.1	8.0
	1952	1952	2.06	1.89	23.4	31.3	7.9
	1953	1953	2.11	1.95	24.4	31.8	7.4
South America							
Chile..... c	1930-34	1930	2.14	1.16	5.0	31.0	26.0
c	1936-39	1940	2.03	1.17	5.4	29.8	24.4
c	1940-43	1940	2.04	1.18	5.7	30.0	24.3
	1952	—	2.07	—	—	—	—
Europe							
Austria..... 4	1931-32	1930-33	0.89	0.74	-10.5°	11.4°	21.9°
	1951	—	0.99	0.91	—	—	—
	1952	—	0.99	0.92	—	—	—
	1953	—	1.00	0.93	—	—	—
	1954	—	1.02	0.95	—	—	—
Belgium.....	1939	1928-32	1.02	0.86	-5.4	13.7	19.1
c	1947-49	1946-49	1.18	1.08	2.6	16.3	13.7
	1950	1946-49	1.14	1.04	1.4	15.6	14.2
	1951	1946-49	1.11	1.01	0.5	15.1	14.6
	1952	1946-49	1.13	1.03	1.0	15.4	14.4
	1953	—	1.13	1.03	—	—	—
Czechoslovakia /e /4	1930-31	1929-32	1.21	0.95	-1.9°	16.9°	18.8°
Denmark..... 4	1931-35	1931-35	1.04	0.92	-2.7°	14.2°	16.9°
(ex. Faeroes) c	1936-40	1936-40	1.06	0.96	-1.4	14.4	15.8
c	1946-50	1936-40	1.34	1.21	6.4	19.0	12.6
	1951	1936-40	1.21	1.10	3.4	17.1	13.7
	1952	1936-40	1.23	1.12	4.1	17.6	13.5
	1953	1936-40	1.25	1.14	5.0	18.1	13.1
	1954	—	1.23	1.12	—	—	—

Country	Date of Fertility Rates	Date of Life Table	Reproduction Rate		Intrinsic Rate (per 1,000 females)		
			Gross	Net	Natural Increase	Birth	Death
Estonia /e /4	1931-34	1932-34	0.96	0.77	-8.6°	12.0°	20.6°
Finland /e	1931-35	1931-35	1.17	0.95	-1.7	16.0	17.7
c	1941-45	1941-45	1.26	1.05	1.7	17.4	15.7
c	1946-50	1946-50	1.64	1.47	13.1	23.5	10.4
	1951	1950-51	1.47	1.36	10.5	21.0	10.5
	1952	1950-51	1.49	1.39	12.9	22.6	9.7
	1953	—	1.44	1.34	—	—	—
France (ex. Saar) 4	1930-32	1928-33	1.10	0.92	-3.0°	15.2°	18.2°
c	1935-39	—	1.03	0.90	—	—	—
c	1940-44	—	1.00	0.86	—	—	—
c	1945-49	—	1.39	1.23	—	—	—
	1950	—	1.42	1.32	—	—	—
	1951	—	1.35	1.26	—	—	—
	1952	—	1.33	1.25	—	—	—
	1953	—	1.30	1.22	—	—	—
Germany /f /4	1933	1932-34	0.80	0.70	-12.2°	9.8°	22.1°
Federal Republic c	1947-49	1949-51	1.00	0.93	-2.7	13.2	15.9
	1950	1949-51	1.01	0.93	-2.4	13.3	15.7
	1951	1949-51	1.00	0.92	-2.9	13.1	16.0
	1952	1949-51	1.00	0.93	-2.7	13.2	15.9
	1953	1949-51	1.01	0.93	-2.6	13.2	15.8
Greece	1931-32	—	1.87	1.25	—	—	—
Hungary /e /4	1930-32	1930-31	1.36	0.99	-0.3°	19.3°	19.6°
Iceland	1940-41	1931-40	1.37	1.20	6.2	19.1	12.9
	1947-48	1931-40	1.81	1.58	15.9	26.1	10.2
Ireland †	1935-37	1935-37	1.43	1.19	5.5	20.2	14.7
	1940-42	1940-42	1.41	1.20	5.7	19.9	14.2
	1945-47	1945-47	1.63	1.40	11.0	23.1	12.1
	1950-52	—	1.60	1.47	—	—	—
Italy /e b,4	1930-32	1930-32	1.58	1.22	6.7°	22.4°	15.8°
	1935-37	1935-37	1.42	1.13	4.1	20.1	16.0
Latvia /4	1929-31	1929-32	1.09	0.89	-3.9°	14.4°	18.2°
	1934-36	1934-36	1.01	0.84	-5.9°	13.0°	19.0°
Netherlands c,5	1932-35	1931-35	1.31	1.19	5.6	18.3	12.7
c,5	1936-40	1931-35	1.27	1.15	4.6	17.7	13.1
c	1946-49	1931-40	1.73	1.58	14.9	24.3	9.4
	1950	1947-49	1.50	1.42	11.3	20.8	9.5
	1951	1947-49	1.53	1.40	7.8	18.5	10.7
	1952	1947-49	1.50	1.42	11.6	21.0	9.4
	1953	1947-49	1.47	1.40	11.0	20.6	9.6
Norway 6	1930-31	1920-30	1.04	0.89	-3.8	13.6	17.4
6	1932-35	1920-30	0.91	0.78	-8.1	11.4	19.5
	1952	1946-50	1.24	1.17	—	—	—
	1953	—	1.28	1.21	—	—	—

Country	Date of Fertility Rates	Date of Life Table	Reproduction Rate		Intrinsic Rate (per 1,000 females)		
			Gross	Net	Natural Increase	Birth	Death
Poland /e /4 †.....	1931-32	1931-32	1.71	1.24	7.2°	24.7°	17.5°
Portugal c	1942-44	—	1.53	1.11	—	—	—
c	1945-49	—	1.58	1.15	—	—	—
	1950	—	1.48	1.08	—	—	—
	1951	—	1.49	1.09	—	—	—
	1952	—	1.53	1.28	—	—	—
	1953	—	1.50	1.27	—	—	—
Spain.....	1922	—	2.01	1.34	—	—	—
	1932	—	1.79	1.28	—	—	—
	1937	—	1.44	1.03	—	—	—
	1940-41	—	1.42	1.01	—	—	—
	1943	—	1.43	1.10	—	—	—
Sweden 4	1933-34	1931-35	0.82	0.73	-10.6°	10.0°	20.7°
c	1935-39	1936-40	0.86	0.78	-8.5	10.8	19.3
c	1940-44	1936-40	1.06	0.96	-1.2	14.3	15.5
c	1945-49	1941-45	1.21	1.14	4.6	16.9	12.3
	1950	1946-50	1.10	1.06	2.1	15.1	13.0
	1951	1946-50	1.07	1.02	0.7	14.3	13.6
	1952	1946-50	1.08	1.03	1.0	14.5	13.5
Switzerland 4	1932	1929-32	0.96	0.85	-5.3°	13.0°	18.4°
c	1936-40	1933-37	0.87	0.78	-8.2	11.3	19.5
c	1942-45	1939-44	1.20	1.10	3.1	16.7	13.6
c	1946-50	1939-44	1.27	1.16	5.2	17.9	12.7
	1951	1939-44	1.21	1.11	3.6	17.0	13.4
	1952	1939-44	1.25	1.14	4.6	17.6	13.0
	1953	—	1.25	1.15	—	—	—
United Kingdom							
England and Wales7†	1930-32	1930-32	0.93	0.81	-7.4	12.0	19.4
8	1948	1948	1.16	1.09	3.0	15.7	12.7
8	1949	1949	1.10	1.04	1.3	14.9	13.6
8	1950	1950	1.06	1.01	0.4	14.3	13.9
8	1951	1951	1.04	1.00	-0.1	14.1	14.2
8	1952	1952	1.05	1.01	0.3	14.0	13.7
Scotland.....c †	1935-39	—	1.06	0.92	—	—	—
c	1940-44	—	1.11	0.96	—	—	—
c	1945-49	—	1.30	1.18	—	—	—
	1950	—	1.23	1.15	—	—	—
	1951	—	1.17	1.10	—	—	—
	1952	—	1.18	1.12	—	—	—
Yugoslavia /g .....b,†	1930-32	—	2.20	1.39	—	—	—
	1949	—	2.00	1.43	—	—	—
	1950	—	2.02	1.45	—	—	—
	1951	—	2.05	1.47	—	—	—
	1952	—	2.08	1.48	—	—	—
	1953	—	1.98	1.42	—	—	—
	1954	—	1.85	1.37	—	—	—

Country	Date of Fertility Rates	Date of Life Table	Reproduction Rate		Intrinsic Rate (per 1,000 females)		
			Gross	Net	Natural Increase	Birth	Death
Asia							
Cyprus	1948-50	1948-50	1.99	1.79	20.8	29.3	8.5
	1951	1948-50	1.89	1.70	18.8	27.6	8.8
	1952	1948-50	1.71	1.53	15.2	24.7	9.5
	1953	1948-50	1.74	1.56	15.7	25.1	9.4
	1954	1948-50	1.76	1.58	16.4	25.7	9.3
Israel /h	1949	—	1.66	1.52	—	—	—
	1950	—	1.89	1.75	—	—	—
	1951	—	1.95	1.81	—	—	—
	1952	—	1.93	1.79	—	—	—
	1953	1953	1.88	1.77	18.8	26.4	7.6
Japan c	1947-49	—	2.15	1.72	—	—	—
	1950	—	1.76	1.52	—	—	—
	1951	—	1.58	1.38	—	—	—
	1952	—	1.44	1.29	—	—	—
	1953	—	1.31	1.18	—	—	—
Thailand c	1947-49	1947-48	1.74	1.30	8.5	25.1	16.6
	1950	1947-48	1.92	1.44	11.8	27.6	15.8
	1951	1947-48	2.03	1.51	13.3	28.7	15.4
Africa							
Egypt /i /4 †	1937	1927-37	3.11	1.44	12.4°	44.8°	32.4°
Mauritius (ex. dep.)	1952	—	3.19	2.44	—	—	—
Oceania							
Australia /j 4	1932-34	1932-34	1.05	0.96	-1.5°	14.1°	15.6°
c	1946-50	1946-48	1.47	1.39	11.6	21.2	9.6
	1951	1946-48	1.48	1.41	12.0	21.4	9.4
	1952-53	1946-48	1.55	1.47	13.4	22.4	9.0
New Zealand /j c	1936-40	1934-38	1.13	1.05	1.8	15.6	13.8
c	1941-45	1934-38	1.31	1.22	6.8	18.6	11.8
c	1946-49	1934-38	1.64	1.52	14.7	23.9	9.2
	1950	1950-52	1.65	1.59	16.1	23.9	7.8
	1951	1950-52	1.64	1.58	16.1	23.9	7.8
	1952	1950-52	1.72	1.65	17.7	25.0	7.3
	1953	1950-52	1.70	1.63	17.4	24.8	7.4
	1954	1950-52	1.76	1.69	18.7	25.8	7.1

Note: The intrinsic rates in this table calculated by an approximate method differ in some instances from the equivalent figure published last year. Because of an oversight in computation, a final adjustment to the estimated value of T (the mean length of generation) was omitted at that time. This adjustment was the removal of a bias in the estimation of T by means of a regression equation. (See "The Calculation of Approximate Intrinsic Rates," Population Index, Vol. 21, No. 2, pages 95 and 96.) The adjustment produces only minor changes in the estimated intrinsic rates.

FOOTNOTES TO TABLES

* Provisional.

† Approximate: in most cases implies estimated number of births, or estimated distribution of births by age of mother.

° Computed by exact methods at Office of Population Research or (U. S., Continental only) U. S. Bureau of the Census.

a/ Excluding Yukon and Northwest Territories.

b/ Rates adjusted for underregistration of births.

c/ Reproduction rates are the arithmetic means of the year-by-year rates given in source.

d/ Adjusted for underenumeration of children under 5 or underregistration of births. 1935-40: fertility data, unlike those for other dates, derive from census results, impairing comparability. 1940 through 1945: unrevised; revised reproduction but not intrinsic rates available from source cited for later years; the revisions are hardly negligible in case of "Nonwhites." 1946 through 1953: reproduction rates are from newly revised series.

e/ Territory as of date.

f/ Territory of 1937.

g/ Net rates for 1949 to 1952 based on average Slovenian mortality 1931-33 and of Austria 1906-10. 1953 and 1954 rates are estimated. 1930-32 rates computed at Office of Population Research.

h/ Jewish population only.

i/ Intrinsic birth and death rates apply to total male and female population. Births adjusted for underregistration.

j/ Excluding aborigines.

Sources

1/ Unless otherwise noted: (1) intrinsic rates were computed by an abbreviated method from the reproduction rates shown and the life tables indicated; (2) reproduction rates taken from United Nations Statistical Office. Demographic Yearbook, 1954, or direct communication of recent data from the United Nations Statistical Office; (3) life-table values used in computing intrinsic rates taken from Demographic Yearbooks, 1948, 1953, or 1954; or from League of Nations. Statistical Yearbook, 1942/44.

2/ Reproduction rates from: Canada. Dominion Bureau of Statistics. Eighth Census of Canada, 1941. Census Monograph No.1. The changing size of the family in Canada. By Enid Charles. Ottawa, 1948. P.15.

3/ Through 1945 (including intrinsic vital rates): U. S. Bureau of the Census. Population — Special Reports, Series P-47, No. 2, March 27, 1947. 1946 through 1952: U.S. National Office of Vital Statistics. Vital Statistics — Special Reports 42(13):294. Dec. 21, 1955. Life tables used in approximating intrinsic rates (for years 1946 through 1953): published and unpublished data concerning abridged tables for single years from U. S. National Office of Vital Statistics.

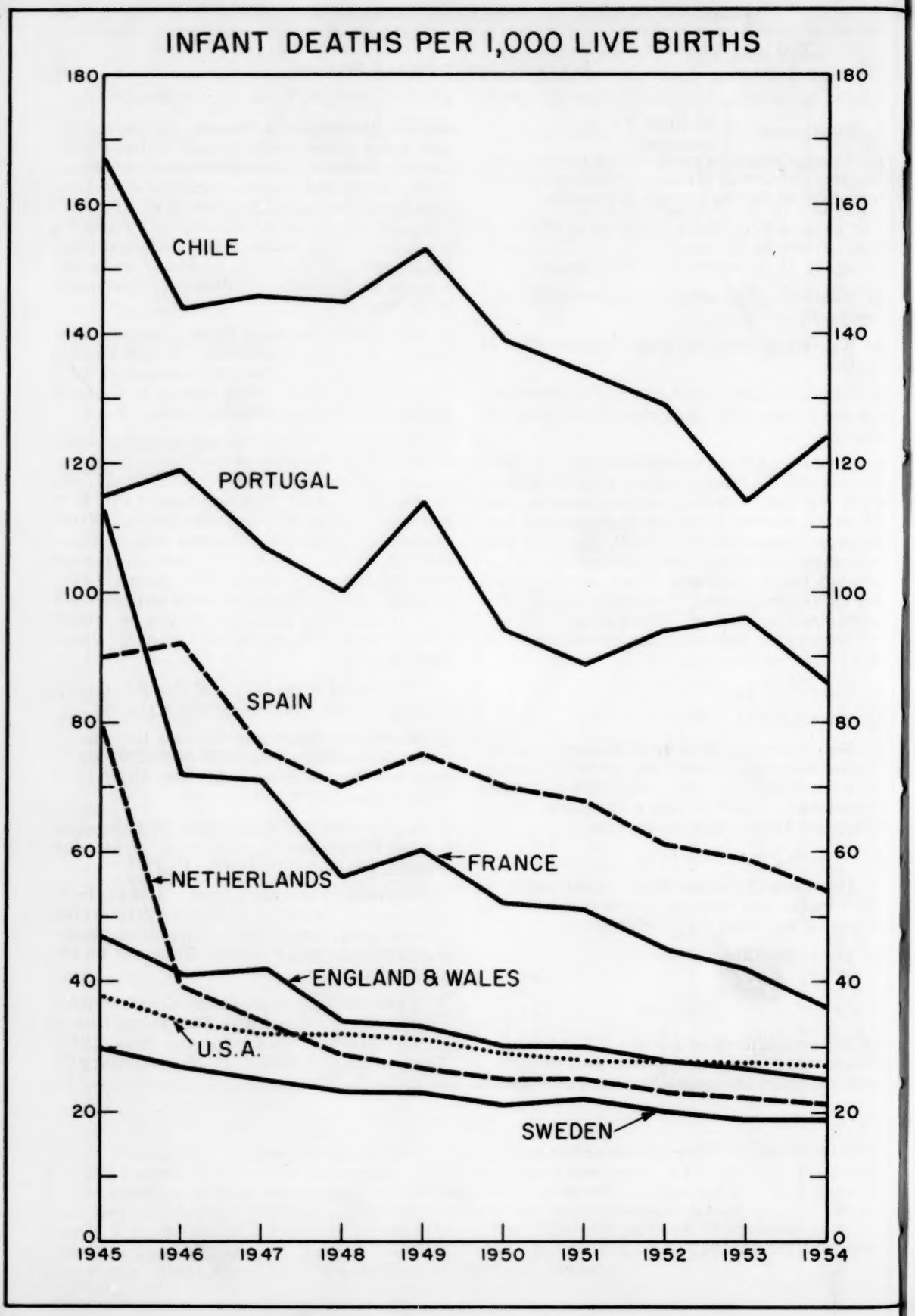
4/ Computed at the Office of Population Research by the exact methods of Lotka.

5/ Mortality data from: Institut International de Statistique. Aperçu de la Démographie des Divers Pays du Monde, 1926-1936. The Hague, 1939.

6/ Reproduction rates from: Norway. Statistisk Sentralbyrå. Statistisk Årbok for Norge, 1952. Oslo, 1953. P.29.

7/ Reproduction rates from: Glass, D.V. "Changes in fertility in England and Wales, 1851 to 1931," in: Hogben, L., editor. Political Arithmetic. London, Allen and Unwin, 1938. P.168.

8/ Reproduction rates from: Great Britain. The Registrar General's Statistical Review of England and Wales for the year 1952. Text volume. London, H.M. Stationery Office, 1955. P.15.


INFANT DEATHS PER 1,000 LIVE BIRTHS
180
160
140
120
100
80
60
40
20
0
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
CHILE
PORTUGAL
SPAIN
NETHERLANDS
FRANCE
ENGLAND & WALES
U.S.A.
SWEDEN